

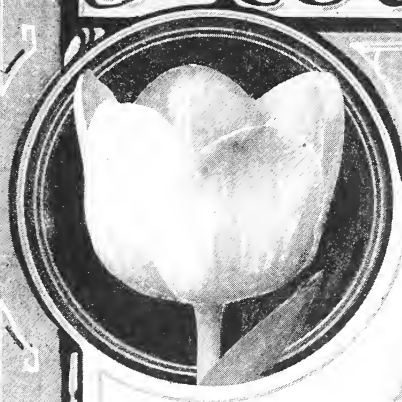
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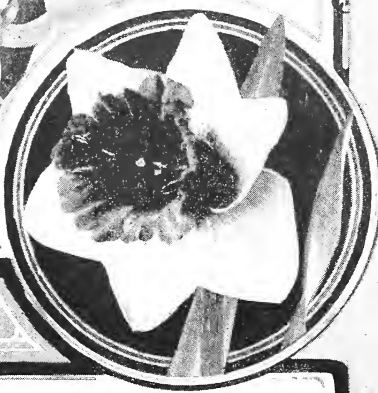


# McCullough's

Bulbs, Seeds, Plants,  
"Shrubs, Trees, Etc."



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"AUTUMN 1924"

WITH COMPLETE CULTURAL DIRECTIONS FOR BULBS

R. S. McCULLOUGH, President

GEO. H. PARVIN, Vice-President

**THE J. M. McCULLOUGH'S SONS COMPANY**

SEEDSMEN AND IMPORTERS OF BULBS

316 Walnut Street, Just Below Fourth

**CINCINNATI, OHIO**

Opposite Walnut St. Entrance  
Dixie Terminal Bldg.

Long Distance Phone Main 4598

Established 1838  
Incorporated 1904  
Post Office Box 845





Established 1838  
Incorporated 1904

# INSTRUCTIONS

## Always Get Your Bulbs Early



Established 1838  
Incorporated 1904

It is advisable to get your bulbs in the ground as early as possible after the first of October. Sooner will do no harm in cold localities. Although they can be planted as late as they can be got in the ground, yet those planted early give finer flowers, as it is necessary for bulbs to make some root growth in fall to give the best results. The general line of bulbs will be ready the second week in September. A few kinds (chiefly lilies) are not ready for shipment before November, as they are not matured enough to take up before that time. Therefore, please note that all general orders will be shipped as soon as received, and the "November Bulbs" will be forwarded as early in November as possible. Should you wish us to hold your general order until November bulbs are ready, please so state.

**OUR PRICES INCLUDE POSTAGE** on single bulbs and by the dozen, except where otherwise noted. Bulbs quoted by the hundred are not sent prepaid.

**Order Early.** It will greatly facilitate shipments if orders are sent early. We aim to send off all orders the day received.

**Send the Money with the Order.** Remit by Post Office Order, Registered Letter, Express Money Order, or Draft on Cincinnati or New York. United States Postage Stamps will be received for small amounts; be exceedingly careful about the least moisture getting on them when remitting, as they sometimes reach us so stuck together as to be almost worthless.

We do not send C. O. D. Everything being plainly priced, the return charges on money is an unnecessary expense.

Should you change your address, we will esteem it a favor if you will notify us, so that we can forward our Catalogues with regularity; if you receive two catalogues of the same kind, please hand one to some friend who is interested in horticulture.

Should an Error Occur, we desire to be promptly informed, and will take pleasure in making satisfactory corrections.

Write your name and address distinctly and in full; please use the order sheet and envelope inserted in this catalogue.

Our Spring Catalogue of Seeds, Bulbs, etc., for 1925 will be ready about January 1st, and will be sent free to all customers and applicants.

### PARCEL POST RATES

All parcels of seeds, bulbs and plants, up to and including 8 oz. at the rate of 1c for each 2 oz. regardless of distance; over 8 oz., at the Zone Rate. All merchandise other than seeds, bulbs and plants up to and including 4 oz. in weight can be sent at the rate of 1c an ounce regardless of distance. Over 4 oz. at the Zone Rate.

**NOTE:**—When estimating postage on goods not included in our free delivery, bear in mind that while the packing on one pound may only weigh the fraction of a pound, it must be considered as a full pound when adding postage. On larger quantities add postage in proportion.

Limit of weight for delivery within local, first, second and third zones is 70 pounds; to all other zones, 50 pounds.

When larger quantities are wanted we can pack in two or more parcels if necessary, provided money is remitted to cover postage.

Zone	First Pound	Each Additional Pound
1 and 2—150 miles-----	5c	1c
3—150 to 300 miles-----	6c	2c
4—300 to 600 miles-----	7c	4c
5—600 to 1,000 miles-----	8c	6c
6—1,000 to 1,400 miles-----	9c	8c
7—1,400 to 1,800 miles-----	11c	10c
8—All over 1,800 miles-----	12c	12c

Poisons cannot be sent by mail. Liquids and goods packed in glass should be sent by Express.

Trade Marks Registered: McCullough's Seeds, XXXX, Buckeye, Suburban Lawn Grass, Central Park Lawn Grass.

We, The J. M. McCullough's Sons Co., give no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs or plants we send out, and we will not be in any way responsible for the crop. If purchaser does not accept the goods on these terms, they are at once to be returned.

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# DUTCH HYACINTHS

The Hyacinth is so well known and esteemed that any description of its many good qualities is needless. The list now offered includes nearly every shade of red, white, blue, yellow, etc.

## CULTURE OF THE HYACINTH

**FOR PLANTING HYACINTHS IN OPEN GROUND**, the preferable season is September to November, but they can be set out at any later time as long as the ground is open. The best compost for their culture is one-third sand, one-third well-rotted cow manure, and one-third good garden mould; or, where the soil is naturally light, well-rotted cow manure liberally intermixed is all sufficient. The beds composed of the above compost should be well dug to a depth of fourteen inches, and raised from two to four inches above the level of the walk. The bulbs should be planted about six inches deep, and from five to six inches apart. Care must be taken not to press the earth too firmly around and over the bulbs. After planting, rake the bed or border smooth, and after the ground has frozen tolerably hard in early winter, cover with a few inches of dry litter, leaves, evergreen boughs or coarse manure.

**FOR THE CULTURE OF HYACINTHS IN POTS**, prepare the above compost, adding, if possible, a quantity of leaf mould. The most favorable time for planting is September, October and November for a succession of bloom; use a four or five inch pot for a single bulb, and a seven inch for three bulbs. Set the bulbs down in the soil and cover them; do not press them in by force, for this packs the soil under them, and when the roots start they are apt to lift the bulb. After planting, water and set away in a dark place until the pots are well filled with roots. Keep the earth moist, and bring to the light as wanted to bloom. Being exposed to the light for the first time, they are, of course, very delicate, care should, therefore, be exercised not to place them in the direct rays of the sun for two or three days.

**FOR CULTURE IN GLASSES**, the bulbs should be so placed that only the base touches the water; then place them for the first ten days, in a dark but cool closet or room, to promote the starting of the roots, after which expose them to light and air as much as possible; avoid placing them near gas-light. The water should be changed as it becomes impure; draw the roots entirely out of the glasses, rinse off the fibres in clean water and wash the inside of the glass well. The water should never be allowed to freeze. When the flowers are well advanced, give them a shower of water every day.

## Choice Named Single Hyacinths

(EXTRA SELECTED, FIRST OR TOP SIZE BULBS.)

It is supposed by many that the best Hyacinths are those which produce double flowers. This is by no means correct, there being many more of the single varieties producing fine, free and brilliant spikes of bloom, and they succeed better in glasses than the double.

PRICES PER DOZEN AND SINGLE BULB INCLUDE POSTAGE

We offer the following named varieties at the uniform price of 15c each; \$1.75 per dozen; \$12.00 per 100.

### SINGLE RED, ROSE AND PINK

**ETNA**, brilliant pink, large spike and flower, late flowering.

**GARIBALDI**, brilliant carmine, very early.

**GENERAL DE WET**, light pink, large spike, good flower.

**GENERAL PELISSIER**, deep crimson, fine truss, early.

**GERTRUDE**, deep rose, fine compact spike.

**GIGANTEA**, delicate pink, large bells.

**LADY DERBY**, bright rose, large spike and flower, excellent for forcing or pot culture, large bulb.

**LA VICTORIE**, brilliant dark pink, very large spike; one of the best.

**MARCONI**, light pink, large spike and flower; extra fine.

**MARIE CATHERINA**, deep red, large spike.

**MORENO**, waxy pink; large truss and bells; extra fine variety.

**QUEEN OF PINKS**, brilliant pink; large flower and spike; a great acquisition—one of the best.

**ROBT. STEIGER**, bright crimson, a fine compact spike.

**ROI DES BELGES**, bright scarlet, fine truss.

### SINGLE PURE AND TINTED WHITE

**ALBERTINE**, pure white, early, good forcing variety.

**ARENTINE ARENSEN**, pure white, large spike and flower, very early; splendid for forcing.

**BLANCHEUR**, pure white, large broad truss.

**BRITISH QUEEN**, pure white, large truss; very early.

**CORREGIO**, the large, fleshy bells are snow white, and form a perfect truss of great beauty and size; good forcer.

**GENERAL VETTER**, bluish white, very large spike; splendid early forcer.

**GRANDE BLANCHE**, bluish white, large spike and flower; early.

**GRANDEUR A MERVEILLE**, rosy-white, large truss.

**LA GRANDESSE**, pure white, with immense bells; one of the best in cultivation.

**L'INNOCENCE**, pure white, extra large truss.

### SINGLE BLUE, LAVENDER AND PURPLE

**CAPTAIN BOYTON**, bright lavender blue, with silvery shading; handsome long spike.

**ENCHANTRESS**, delicate porcelain blue, large compact truss.

**GRAND LILAS**, silvery lilac, large compact truss.

**GRAND MAITRE**, deep porcelain blue, large truss.

**KING OF BLUES**, dark rich blue, splendid spike.

**LA PEYROUSE**, light blue, large bells.

**MARIE**, dark purple, very large spike.

**PERLE BRILLIANTE**, light blue, large spike and flowers; late flowering.

**QUEEN OF BLUES**, beautiful azure blue, large bells and handsome truss; late.

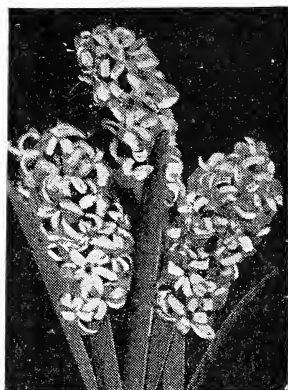
**SCHOTEL**, light blue, long perfect truss; early; good forcer.

### SINGLE YELLOW

**CITY OF HAARLEM**, golden yellow, large well formed truss, extra fine.

**KING OF YELLOWS**, pure yellow, large bell and spike.

**YELLOW HAMMER**, golden yellow, fine large spike; one of the best.



The above named Hyacinths, 15c each; \$1.75 per dozen; \$12.00 per 100.

## Select First-Size Named Double Hyacinths

While double-flowering Hyacinths do not, as a rule, produce as fine spikes as the single sorts offered on page 1, yet they are exceedingly handsome and deserve extensive cultivation. The varieties listed below are those which we have found by actual tests to be the most satisfactory.

We offer the following named varieties at the uniform price of.....15c each; \$1.75 per dozen; \$12.00 per 100

### DOUBLE RED ROSE

**CHESTNUT FLOWER**, bright rose, large flower.  
**GROOTVORST**, pink, large truss and bells.  
**NOBLE PAR MERITE**, rose, large bells, splendid truss.  
**PRESIDENT ROOSEVELT**, bright rose, fine spike.  
**PRINCE OF ORANGE**, blush rose, fine spike, semi-double.

### DOUBLE WHITE

**BOUQUET ROYAL**, pure white, fine spike.  
**EDISON**, blush white, fine spike, early.  
**LA TOUR D'AUVERGNE**, pure white, very early.  
**LA VIRGINITE**, blush white, dwarf, large bells.  
**QUEEN OF WHITES**, pure white, large truss, fine flower.

### DOUBLE BLUE

**BLOKSEERG**, porcelain striped, large truss.  
**CROWN PRINCE OF SWEDEN**, violet blue.  
**GARRICK**, lilac blue, with bright blue stripe.  
**GENERAL ANTINK**, porcelain blue, dark center, good truss.

### DOUBLE YELLOW

**GOETHE**, clear, pale yellow, large bells, fine truss.  
**JAUNE SUPREME**, deep yellow, tinted with salmon.  
**SIR ROWLAND HILL**, pure yellow, large spike.  
**SUNFLOWER**, yellow, tinted salmon.

Above named Hyacinths, 15c each; \$1.75 per dozen; \$12.00 per 100. Prices Per Dozen and Single Bulbs Include Postage.

## Select Second-Size Named Single Hyacinths

These are smaller than our Extra Selected first or top six bulbs offered on page 1, but are fine flowering stock, and admirably adapted for pot culture and high-grade bedding where distinct shades of color are desired.

We can furnish them in the following selected varieties at the uniform price of 10c each; \$1.10 per dozen; \$8.00 per 100.

### SINGLE RED, ROSE AND PINK

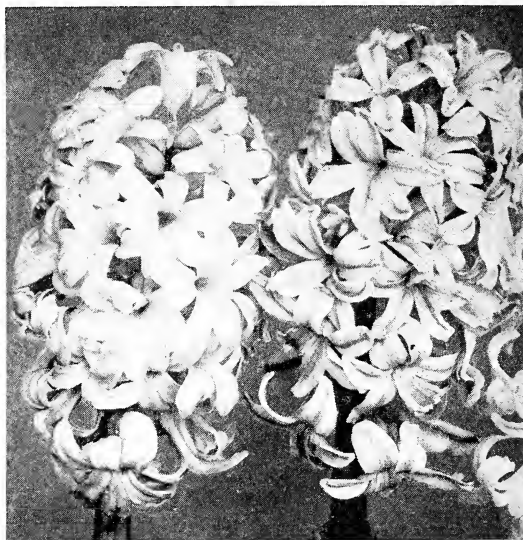
**CARDINAL WISEMAN**, charming bright rose-pink, large spike.  
**GENERAL PELISSIER**, deep crimson, fine truss, early.  
**GERTRUDE**, deep rose, fine compact spike.  
**GIGANTEA**, delicate pink, large bells.  
**MORENO**, waxy pink, large truss and bells, extra fine variety.  
**QUEEN OF PINKS**, brilliant pink, large flower and spike.  
**ROBT. STEIGER**, bright crimson, a fine compact spike.  
**ROI DES BELGES**, bright scarlet, fine truss.

### SINGLE PURE AND TINTED WHITE

**ALBERTINE**, pure white, early, good forcing variety.  
**ARENTEINE ARENDSSEN**, pure white, large spike, good forcer.  
**CORREGIO**, pure white, large truss, good forcer.  
**GRANDE BLANCHE**, blush white, large spike and flowers; early.  
**GRANDEUR A MERVEILLE**, rosy white, large truss.  
**LA GRANDESSE**, pure white, with immense bells, one of the best in cultivation.  
**L'INNOCENCE**, pure white, extra large truss.

### SINGLE BLUE, LAVENDER AND PURPLE

**ENCHANTRESS**, porcelain blue, large compact truss.  
**GRAND MAITRE**, deep porcelain blue, large truss.  
**KING OF BLUES**, dark, rich blue, splendid spike.  
**LA PEYROUSE**, light blue, large bells.  
**MARIE**, dark purple, very large spike.  
**QUEEN OF BLUES**, beautiful azure blue, large bells and handsome truss; late.  
**REGULUS**, light blue, good forcer and bedder.



### SINGLE YELLOW

**KING OF YELLOWS**, pure yellow, large bell and spike.  
**YELLOW HAMMER**, golden yellow, large spike.  
 Above named Hyacinths, 10c each; \$1.10 per dozen; \$8.00 per 100. Prices per dozen and single bulb include postage.

## Choice Un-named Hyacinths

### FOR BEDDING AND FORCING IN SEPARATE COLORS AND MIXED SHADES

These are made up of varieties selected for beds and borders, or for forcing for cut flowers, and are of such superior quality as to be entirely satisfactory to florists who use large quantities of them.

We offer the following unnamed varieties at the uniform price of 8c each; 80c per dozen; \$6.00 per 100. Prices per dozen and single bulb include postage.

### SINGLE VARIETIES

Red, mixed shades.	Dark Blue and Purple.
Rose.	Light Blue.
Pure White.	Yellow.
White, tinted.	MIXED, all colors.

### DOUBLE VARIETIES

Red, mixed shades.	Dark Blue and Purple.
Rose.	Light Blue.
Pure White.	Yellow.
White, tinted.	MIXED, all colors.

### MINIATURE OR DUTCH ROMAN

These may be planted close together in pots or boxes, also in beds in the open ground with charming effect. We can furnish named varieties in the following colors: Dark Red, Rose and Pink, Dark Blue, Light Blue, Pure White, and All Colors Mixed. 6c each; 60c per dozen; \$4.25 per 100.

## Roman Hyacinths Exclusively for Forcing

These are extensively used by florists for forcing, which may be done at a temperature of 60 degrees. The white variety flowers two to three weeks in advance of the Holland Hyacinths. The flowers are pure white and very fragrant, and each bulb will throw up from three to four spikes. For forcing, three or four bulbs are generally planted in a suitable pot, in good soil as recommended for other varieties. The pots must be kept in a cool and dark place until filled with roots, when the flower spikes can be rapidly developed by exposure to light and moderate heat.  
 White Roman, 20c each; \$2.00 per dozen; \$15.00 per 100.

Prices Per Dozen and Single Bulb Include Postage.

# TULIPS

Tulips are one of the most ornamental flowers grown; will thrive in any rich soil or situation if cultivated the same as the Hyacinth. Their brilliant colors impart rich and beautiful appearance to the lawn in early spring. They can be grown in the house in pots and will force well with Hyacinths under the same treatment. For outdoor planting, October and November are the most favorable months. Have the ground well drained; plant from three to four inches deep and about six inches apart.

## Darwin Tulips

### MAY FLOWERING

The Darwin are late May-flowering garden Tulips, producing very large bowl-formed flowers of symmetrical shape, on tall, strong stems, 2 to 3 feet high, and are effective grown in groups, in the shrubbery or herbaceous border. They far surpass in color and brilliancy anything before known in Tulips. They include almost every conceivable color and shade.

**ASA GRAY.** Dark carmine, large, finely formed flower. 6c each; 50c per dozen; \$3.50 per 100.

**BARON TONNAYE** (26 inches). Bright pink margined blush—base white, tinged blue. A long and beautiful flower. 6c each; 50c per dozen; \$3.50 per 100.

**BARTIGON.** Flery crimson with a pure white base; good forcer. 6c each; 65c per dozen; \$4.50 per 100.

**BLUE AMIALE.** Heliotrope, inside dark violet-purple with a blue base; very large and handsome. 6c each; 65c per dozen; \$4.50 per 100.

**CLARA BUTT.** A large flower of remarkable beauty; color soft salmon pink, shaded rose. 6c each; 50c per dozen; \$3.50 per 100.

**DREAM.** Beautiful delicate lilac—large globular flower. 6c each; 65c per dozen; \$4.50 per 100.

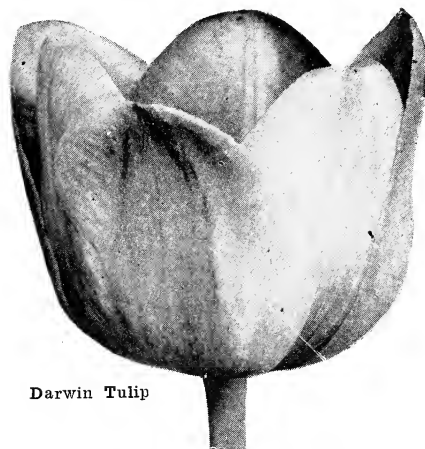
**EUROPE.** (Salmon King). Glowing salmon scarlet, shaded rose, large distinct white base; one of the showiest bedders. 6c each; 65c per dozen; \$4.50 per 100.

**FARNCOMBE SANDERS.** Immense flower of the most brilliant scarlet; one of the best and showiest. 6c each; 65c per dozen; \$4.50 per 100.

**GLOW.** Brilliant, glowing vermilion; blue-black base, zoned white. 6c each; 50c per dozen; \$4.50 per 100.

**GRETCHEN.** (Margaret.) A lovely large flower of globular form; outside soft blush; inside blush rose. 5c each; 50c per dozen; \$3.50 per 100.

**LA TULIPE NOIRE.** Deep maroon black; the darkest and finest form of Darwin Tulip; strong stem and large flower. 6c each; 65c per dozen; \$4.50 per 100.



Darwin Tulip

**MADAME KRELAGE.** Soft lilac-rose, with a broad margin of blush pink; large flower on a very tall stem; good for forcing. 6c each; 65c per dozen; \$4.50 per 100.

**PRIDE OF HAARLEM.** Magnificently formed flower of immense size; color brilliant, deep salmon-rose, shaded with scarlet; electric blue base. 5c each; 50c per dozen; \$3.50 per 100.

**REV. EWBANK.** Lilac mauve, shading to silvery heliotrope at edge, very beautiful and distinct color; good forcer. 5c each; 50c per dozen; \$3.50 per 100.

**WHITE QUEEN.** A large globular flower of pure white, faintly flushed with delicate blush. 6c each; 60c per dozen; \$4.00 per 100.

**FINEST MIXED.** Great variety of all colors and shades. 5c each; 45c per dozen; \$3.00 per 100.

## Breeder Tulips

Breeders, formerly listed among the Cottage Tulips, really form a distinct class by themselves. These unbroken forms of the old Cottage Tulips are a most interesting class of Tulips.

They have become very popular lately on account of their refined, peculiar colors and vigorous growth. The enormous flowers carried on strong stems are very effective and especially suitable for garden decoration.

**APRICOT.** Bronzy buff, shaded orange, large peculiar shaped flower. 8c each; 80c per dozen; \$5.50 per 100.

**BRONZE QUEEN.** (Clio.) Delicate shade of brown, inside tinted golden bronze, beautiful tall stemmed flower of great substance; good forcer. 6c each; 60c per dozen; \$4.00 per 100.

**CARDINAL MANNING.** (Goliath.) Dark wine red, flushed rosy bronze, very peculiar color; large flower. 6c each; 65c per dozen; \$4.50 per 100.

**DOM PEDRO.** A beautiful shade of coffee brown, shaded maroon, distinct attractive flower. 8c each; 85c per dozen; \$6.00 per 100.

**GODET PAREAIT.** Bright violet, a very remarkable, beautiful color, large substantial flower. 10c each; \$1.00 per dozen; \$7.00 per 100.

**KLOPSTOCK.** Fine lilac, immense flower. 15c each; \$1.30 per dozen; \$10.00 per 100.

**LA SINGULIERE.** (Lord Curzon.) Silvery white, dark crimson, margined, very large. 8c each; 80c per dozen; \$5.50 per 100.

**LOUIS XIV.** Rich dark purple, shaded steel blue, heavily flushed bronze, edged golden brown; enormous size and stately bearing. 30c each; \$3.00 per dozen; \$20.00 per 100.

**MARIE LOUISE.** Rose, flushed orange-salmon, a pleasing combination of colors; very attractive. 8c each; 85c per dozen; \$6.00 per 100.

**PANORAMA.** Deep orange-red, shaded mahogany, large globular flower; good forcer. 8c each; 85c per dozen; \$6.00 per 100.

**PRINCE OF ORANGE.** (Orange Beauty.) Orange scarlet with paler edge; large, beautiful flower. 8c each; 80c per dozen; \$5.50 per 100.

**SALOMON.** Lilac shaded silvery white, white base; a magnificent tulip. 20c each; \$2.00 per doz.; \$14.00 per 100.

**TURENNE.** (MacMahon.) Purplish brown with soft yellow edge, very large and early. 8c each; 85c per dozen; \$6.00 per 100.

**VELVET KING.** (Dreadnaught.) Velvety black, enormous flower on strong stem; very showy. 15c each; \$1.50 per dozen; \$10.00 per 100.

**YELLOW PERFECTION.** Light bronze-yellow, edged golden yellow; very handsome flower. 6c each; 65c per dozen; \$4.50 per 100.

**FINEST MIXED.** Great variety of colors and shades. 6c each; 65c per dozen; \$4.50 per 100.

## Parrot or Dragon Tulips

Very large flowers of singular and picturesque forms and brilliant colors; very beautiful and interesting. The petals are curiously fringed or cut. They form showy flower beds or borders, are of endless variety of form and color, stand a long time when cut, and should be grown in every flower garden in quantity.

**CONSTANTINOPLÉ.** Large red flowers, tipped orange. 6c each; 55c per dozen; \$3.75 per 100.

**CRAMOISIE BRILLIANT.** Deep crimson, with large, black, star-shaped center, extra fine. 6c each; 55c per dozen; \$3.75 per 100.

**LUTEA MAJOR.** Large bright yellow, feathered with red and green. 6c each; 55c per dozen; \$3.75 per 100.

**PERFECTA.** Striped yellow and scarlet. 6c each; 55c per dozen; \$3.75 per 100.

**FINEST MIXED COLORS.** 5c each; 45c per dozen; \$3.00 per 100.



## Single Early Tulips

The letters, a, b, c, following the varieties, indicate their earliness of bloom; the A's flower together, and are the earliest; B, next, etc. The figures indicate the height attained in inches, to aid in arranging flower beds.

### Prices Per Dozen and Single Bulb Include Postage

**ARTUS**, b7, scarlet, fine bold flower, good for forcing or bedding. 6c each; 50c per dozen; \$3.50 per 100.

**BELLE ALLIANCE**, b7, brilliant scarlet, large flower, sweet scented; fine for bedding and forcing. 6c each; 60c per dozen; \$4.00 per 100.

**CHRYSOLORA**, b9, pure yellow, large and handsome flower; finest yellow bedder. 6c each; 50c per dozen; \$3.50 per 100.

**COTTAGE MAID**, b6, rosy pink, edged with white; a charming variety for bedding and late forcing. 6c each; 60c per dozen; \$4.00 per 100.

**CRIMSON BRILLIANT**, b9, brilliant scarlet, large flower; splendid variety for bedding and forcing. 6c each; 50c per dozen; \$3.50 per 100.

**DUC DE BERLIN**, a8, scarlet with broad yellow edge and yellow base; good for forcing. 6c each; 55c per dozen; \$3.75 per 100.

**DUCHESSE DE PARMA**, b9, brownish red with yellow border, large flower; good forcer and breeder. 6c each; 55c per dozen; \$3.75 per 100.

**DUSART**, b8, dark scarlet, large and very robust, fine for parks, a grand flower; finest scarlet bedder. 6c each; 55c per dozen; \$3.75 per 100.

	Each	Doz.	100
<b>GRAND DUC (Keiserkroon)</b> , b9, deep crimson, broad orange-yellow margin, large and effective-----	\$0.06	\$0.65	\$4.50
<b>JOOST VAN VONDEL</b> , b8, crimson, flamed white, large and distinct-----	.06	.50	3.50
<b>KING OF YELLOWS</b> , b9, deep golden yellow; extra large and showy; good for early forcing-----	.06	.55	3.75
<b>LA REINE (Queen Victoria)</b> , b6, white, slightly shaded rose; good variety for bedding or forcing-----	.05	.45	3.00
<b>L'IMMACULEE</b> , b7, pure white, very early and fine; excellent for forcing and bedding-----	.06	.50	3.50
<b>POTTEBAKER SCARLET</b> , a8, bright scarlet, very large and fine flower-----	.06	.50	3.50
<b>POTTEBAKER WHITE</b> , a8, pure white, fine large showy flower-----	.06	.65	4.50
<b>POTTEBAKER YELLOW</b> , a8, large, fine golden yellow; excellent forcer-----	.06	.50	3.50
<b>PRINCESS MARIANNE</b> , b8, white, with rosy stripe, large flower; excellent for bedding-----	.06	.55	3.75
<b>PRINCE OF AUSTRIA</b> , b9, orange-scarlet, sweet scented; fine forcer or bedder; a grand Tulip-----	.06	.60	4.00
<b>PROSPERINE</b> , a8, carmine-rose, rich, silky and effective, beautifully shaped large flower-----	.08	.85	6.00
<b>ROSA MUNDI</b> , b8, white, shaded with rich rose, very strong stem; early-----	.06	.55	3.75
<b>ROSE GRISDELIN</b> , b6, delicate rose, shaded white; fine for forcing and bedding; very beautiful-----	.06	.50	3.50
<b>THOMAS MOORE</b> , b10, orange-scarlet, effective large Tulip; sweet scented-----	.06	.50	3.50
<b>VERMILION BRILLIANT</b> , b8, deep dazzling vermilion; extra fine for pots and massing-----	.08	.80	5.50
<b>WHITE SWAN</b> , b9, large, pure white egg-shaped flower on tall stems-----	.06	.55	3.75
<b>YELLOW PRINCE</b> , b7, golden yellow, extra large and showy, scented as a Tea Rose-----	.06	.50	3.50
<b>SEPARATE COLORS</b> , Pink, Red, Striped Red and Yellow, Violet and Purple, White and Yellow-----	.05	.40	2.75
<b>FINE MIXED</b> , including all colors and shades-----	.05	.35	2.25



MAY FLOWERING TULIPS

## Late May Flowering Single Tulips

This beautiful class is becoming more popular as it becomes better known. These Tulips are distinct from the early flowering sorts, coming into bloom two or three weeks later and extending the Tulip season over a period of four weeks or more.

On account of their extreme hardiness, they are especially adapted for the permanent hardy flower border, where they should be liberally planted in clumps or masses. They may also be naturalized in grass, wild gardens, etc. For bedding they are superb, while as cut flowers they are much to be preferred to the early type, having long stems with flowers of great substance that will remain in perfect condition for a long time.

In planting, the bulbs should be set a little deeper than ordinary tulips, a covering of 4 inches being about right.

**BOUTON D'OR**. (Ida, Golden Beauty.) (21 inches.) Rich, deep golden yellow; a large, long stemmed, globular flower of finest substance; fine bedder and unequalled for cutting. 6c each; 50c per doz.; \$3.50 per 100.

**GESNERIANA SPATHULATA**. (28 inches.) Intense crimson-scarlet, with glittering blue-black center. The tallest, largest flowered and showiest of all Tulips for bedding out in masses. Flowers of enormous size. 5c each; 50c per dozen; \$3.50 per 100.

**GESNERIANA ROSEA**. (24 inches.) Very large flowers of a bright rose color, with blue center, remaining in perfection for a long time. 5c each; 50c per dozen; \$3.50 per 100.

**GOLDEN CROWN**. (22 inches.) Large flowers with pointed petals, color rich yellow, petals faintly edged with red; a good bedder, sweet scented. 5c each; 50c per dozen; \$3.50 per 100.

**INGLEScombe PINK** (Salmon Queen.) (18 inches.) Bright rose-pink with a salmon sheen, large globular flower. 5c each; 50c per dozen; \$3.50 per 100.

**INGLEScombe YELLOW**. Large globular flower, long strong stem, good for borders and cutting. May be called the Yellow Darwin Tulip on account of its Darwin Type. 5c each; 50c per dozen; \$3.50 per 100.

**ISABELLA** (Blushing bride, Shandon Bells.) (18 inches.) Large, long, handsome flower, silvery white, suffused soft carmine-rose towards the edge; center creamy yellow and green. 5c each; 50c per doz.; \$3.50 per 100.

**LA CANDEUR**. (Parisian White.) (15 inches.) Pure white changing to silvery pink; large egg-shaped flowers. 5c each; 50c per dozen; \$3.50 per 100.

**LA MERVEILLE**. (18 inches.) A magnificent variety with very large, sweet scented flowers; color, salmon-rose overlaid with orange-red, very effective in beds and borders. 5c each; 50c per dozen; \$3.50 per 100.

**PARISIAN YELLOW**. (28 inches.) A beautiful, large, pure yellow of exquisite shade and shape; special value for cutting. 5c each; 50c per dozen; \$3.50 per 100.

**PICOTEE** (Maiden's Blush.) (24 inches.) White, faintly edged with pink, which suffuses the entire flower as it ages; a beautiful cut flower. 5c each; 50c per dozen; \$3.50 per 100.

**SWEET NANCY**. A very large white egg-shaped flower, edged and suffused with rose. 5c each; 50c per dozen; \$3.50 per 100.

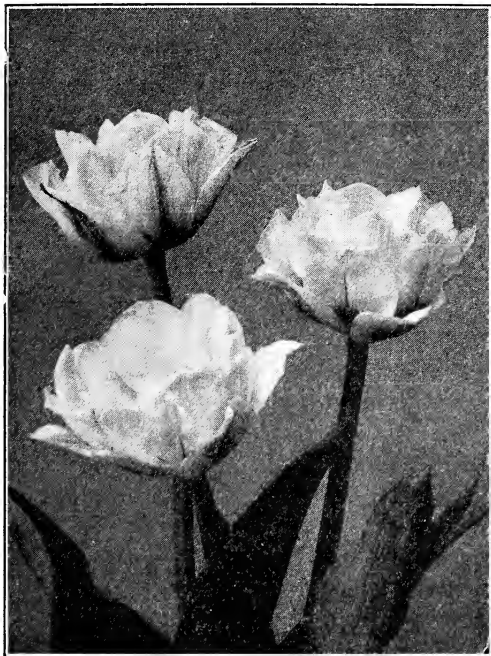
**CHOICEST MIXED**. A splendid mixture of all colors, including sweet scented varieties. 5c each; 45c per dozen; \$3.00 per 100.

If you want Flowers in your house this winter or in your garden next spring, you must plant Bulbs this fall. Prices per dozen and single bulb include postage.



## Double Tulips

This class of Tulip is one of the most valuable. The earlier varieties are admirably adapted for pot culture and form a pleasing contrast to the Single Tulips in the greenhouse or conservatory. When planted in the open border they are very showy, and a succession of bloom may be had by a judicious selection from the earlier and later varieties. The Rex Rubrorum and La Candeur form a dense mass of bloom when grown in beds and the flowers remain in perfection of bloom longer than those of the single varieties.



DOUBLE TULIPS

## CROCUS

This brilliant and universally admired spring flower will thrive in any soil or situation, but to be brought to the highest perfection it should be grown in an open bed or border of deep, rich, sandy loam. When planted in large groups or lines of distinct colors, the effect is very striking and the bulbs are now offered so cheap as to justify their liberal use. They are invaluable for pot culture. To secure a succession of bloom, commence planting early in October; 6 to 8 bulbs in a pot (the named varieties are best for this purpose), using rich soil and planting about an inch deep. Place the pots on a surface of ashes, cover the top one inch deep with soil until the leaves appear, when they may be removed to the house.

### LARGE FLOWERING NAMED CROCUS

These are large bulbs of the best varieties, remarkable for richness of color and size of their flowers, and are the best to use for pot culture or where extra fine results are wanted.

	Per Doz.	Per 100
ALBION, lavender striped white and violet-----	\$0.25	\$1.50
BARON BRUNOW, purplish mauve, shading to deep purple at tips-----	.25	1.50
KING OF BLUES, light blue, large flower-----	.25	1.50
KING OF WHITES, pure white; extra large flower--	.25	1.50
LA MAJESTEUSE, violet striped white; large flower	.25	1.50
LADY STANHOPE, white, extra large-----	.25	1.50
MAMMOTH YELLOW, large golden yellow-----	.35	2.50
MONT BLANC, large, pure white; extra-----	.25	1.50
NON PLUS ULTRA, light blue, with white border--	.25	1.50
PRINCE ALBERT, dark blue; extra fine-----	.25	1.50
SIR WALTER SCOTT, white, striped with violet----	.25	1.50

### MIXED CROCUS

The bulbs offered under this head are smaller than our Large Flowering Named Sorts, but are quite satisfactory for planting in the grass or for any position out of doors.

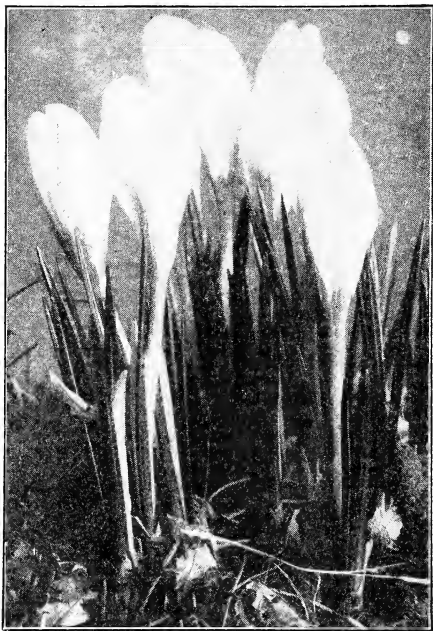
	Per Doz.	Per 100
Large White-----	\$0.20	\$1.00
Large Yellow-----	.20	1.00
Extra Large Yellow-----	.25	1.20
Large Blue and Purple-----	.20	1.00
Striped and Variegated-----	.20	1.00
Mixed, All Colors-----	.20	1.00

This class of Tulips is one of the most valuable. The earlier varieties are admirably adapted for pot culture and form a pleasing contrast to the Single Tulips in the greenhouse or conservatory. When planted in the open border they are very showy, and a succession of bloom may be had by a judicious selection from the earlier and later varieties. The Rex Rubrorum and La Candeur form a dense mass of bloom when grown in beds and the flowers remain in perfection of bloom longer than those of the single varieties.

For Cultural Directions, etc., See Tulips, Page 3

- BOULE DE NEIGE**, b8, pure white large flower; extra fine. 6c each; 65c per dozen; \$4.50 per 100.
- COURONNE D'OR**, b8, golden yellow flushed orange, large handsome flower; excellent for growing in pots or beds. 6c each; 65c per dozen; \$4.50 per 100.
- DUKE OF YORK**, b8, carmine edged white; good for bedding and late forcing. 6c each; 50c per dozen; \$3.50 per 100.
- GLORIA SOLIS**, a7, deep crimson with broad golden margin; very large. 6c each; 55c per dozen; \$3.75 per 100.
- IMPERATOR RUBRORUM**, a9, rich crimson-scarlet; extra fine for forcing. 6c each; 65c per dozen; \$4.50 per 100.
- LA CANDEUR**, b8, pure white extensively grown for bedding. 6c each; 60c per dozen; \$4.00 per 100.
- MURILLO**, b8, blush-white shaded rose, large flowers; fine for forcing and bedding. 6c each; 50c per dozen; \$3.50 per 100.
- RUBRA MAXIMA**, a9, dark crimson-scarlet: splendid early forcer and good bedder. 6c each; 60c per dozen; \$4.00 per 100.
- SALVATOR ROSA**, a8, deep rose flamed with blush; a fine large double flower suitable for early forcing or bedding. 6c each; 65c per dozen; \$4.50 per 100.
- SCHOONOORD**, b10, the finest double white; a sport from Murillo. 6c each; 65c per dozen; \$4.50 per 100.
- TEA ROSE**, b10, saffron-yellow changing to rosy apricot; good forcer for growing in pots and pans. 6c each; 50c per dozen; \$3.50 per 100.
- TOURNESOL**, a7, scarlet margined yellow; one of the best for forcing. 6c each; 65c per dozen; \$4.50 per 100.
- SEPERATE COLORS**, Pink, Red, Striped Red and Yellow, White and Yellow. 5c each; 40c per dozen; \$2.75 per 100.
- FINE MIXED**, including all colors and shades. 5c each; 40c per dozen; \$2.50 per 100.
- MCCULLOUGH'S 'NORWOOD'** collection of **DOUBLE TULIPS** consists of 200 superfine, mixed double Tulips. Price, \$5.00, not prepaid.

Prices Per Dozen and Single Bulb Include Postage.



CROCUS

# A PAGE OF NARCISSUS OR DAFFODILS

A beautiful class of early blooming flowers, both for outdoor blooming and for use as cut flowers in the house. Their delicious fragrance, easy culture and thriftiness entitles them to the greatest popularity.

The double and single sorts are perfectly hardy and need not be disturbed oftener than once in three or four years, and not then unless they have become too much crowded by offsets.

Plant in the fall in good garden soil, about three or four inches deep and two to six inches apart.

The Polyanthus varieties for flowering in pots in the house are very satisfactory. They bloom about the first of February in dense clusters, two or three flower stalks to each bulb, while the earliest of all, the Paper White, will come into bloom as early as December.

A good, natural temperature suits them best. Pot in the fall, let them root for two or three months in the dark, then remove to the conservatory or living room, and water as often as the soil requires moisture.

## SINGLE NARCISSUS

**BARRI CONSPICUA.** Large, broad yellow perianth; broad, short crown edged with scarlet; a robust, strong grower and free bloomer; should be grown in quantity for cutting, as it lasts longer than most sorts. 6c each; 65c per dozen; \$4.50 per 100.

**BICOLOR EMPRESS.** Perianth white, trumpet rich yellow, serrated at edges; a magnificent large variety, bold, erect and of rare beauty for cutting. 7c each; 75c per dozen; \$5.25 per 100.

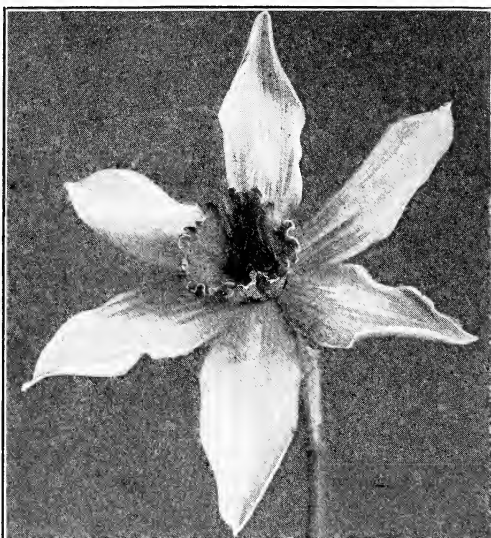
**BICOLOR GRANDIS.** Flowers large with broad white perianth, the petals of which are wide and over-lapping; trumpet yellow, beautifully imbricated; a flower of great substance and fine for cutting; late flowering and valuable for succession. 7c each; 70c per dozen; \$5.00 per 100.

**BICOLOR VICTORIA.** Perianth creamy white, trumpet rich yellow, delicately perfumed; a strong grower with massive flowers which stand boldly erect. 7c each; 75c per dozen; \$5.25 per 100.

**EMPEROR.** Perianth deep primrose-yellow, trumpet large, rich golden yellow; one of the finest Daffodils in cultivation; should be in every collection; a magnificent flower, much prized for cutting. 7c each; 75c per dozen; \$5.25 per 100.

**FIGARO.** Perianth lemon yellow, cup yellow shaded with orange; a large and well-formed flower. 6c each; 65c per dozen; \$4.50 per 100.

**GOLDEN SPUR.** Perianth deep yellow, trumpet golden yellow; a charming, highly perfumed flower, flowering early and freely. 7c each; 75c per dozen; \$5.25 per 100.



Narcissus Barri Conspicua

**MRS. LANGTRY.** Pure white perianth, broad and over-lapping; cup pale primrose changing to white with age; free flowering variety. 6c each; 55c per dozen; \$3.75 per 100.

**POETICUS.** (Pheasant's Eye or Poet's.) Flowers pure white with distinct red crown; sweet scented. 4c each; 35c per dozen; \$2.50 per 100.

**POETICUS KING EDWARD.** A magnificent, large flowering early variety with a broad, round white flower with yellow cup edged deep red. 7c each; 70c per dozen; \$5.00 per 100.

**POETICUS ORNATUS.** Large, pure white flowers, saffron cup, tinted with rosy scarlet; very early. 4c each; 35c per dozen; \$2.50 per 100.

**PRINCEPS MAXIMUS.** Large flowers with light yellow perianth and deep yellow trumpet. 7c each; 70c per dozen; \$5.00 per 100.

**SIR WATKIN.** Perianth sulphur yellow, cup slightly deeper in color and tinged with orange; flowers very large and free blooming. 7c each; 75c per dozen; \$5.25 per 100.

**STELLA.** Perianth white and slightly twisted, yellow crown; flowers large, free blooming and one of the best for naturalizing. 6c each; 55c per dozen; \$3.75 per 100.

**TRUMPET MAJOR.** Flowers large and of uniform deep golden yellow; comes into bloom early and is excellent for forcing, bedding or naturalizing. 6c each; 60c per dozen; \$4.00 per 100.

**VON SION SINGLE.** Large flowers of rich yellow color; an excellent sort for forcing, bedding or naturalizing. 6c each; 60c per dozen; \$4.00 per 100.

## DOUBLE NARCISSUS

**ALBA PLENA ODORATA.** The double Poetius; flowers pure white, large and very fragrant, one of the finest for all purposes. 6c each; 65c per dozen; \$4.50 per 100.

**INCOMPARABLE.** Pale yellow and orange mixed, full double flower, large, varying somewhat in shade like the single variety, from pale citron yellow to deep orange. 7c each; 70c per dozen; \$5.00 per 100.

**ORANGE PHOENIX.** Large double white, with orange segments in the center. 8c each; 80c per dozen; \$6.00 per 100.

**SILVER PHOENIX.** Largest of the Double Narcissus; pale creamy white with sulphur, delicate fragrance; fine for cutting or for decorating purposes. 7c each; 75c per dozen; \$5.25 per 100.

**VON SION.** The famous "Old Double Yellow Daffodil," rich golden yellow perianth and trumpet; one of the best forcing sorts. 6c each; 60c per dozen; \$4.00 per 100.

**VON SION, SELECTED EXTRA LARGE.** True Northern grown Dutch Bulbs. 7c each; 75c per dozen; \$5.50 per 100.

Prices Per Dozen and Single Bulb Include Postage



Bicolor Victoria

**SPECIAL NOTICE** The Federal Horticultural Board of the Department of Agriculture has announced that after 1925 they will not permit the further importation of any variety of Narcissus, or Daffodils. We urge our patrons to plant liberally of these bulbs.

## Narcissus Poetaz Hybrids

These new hardy cluster-flowered hybrids between Poeticus and Polyanthus are healthy, strong and tall growers, some of the varieties attaining a height of 2 feet. The flowers are more like Poeticus in character, but are borne in clusters like the Polyanthus. Planted in permanent quarters they form large, luxuriant clumps.

**ALSACE.** Very early flowering, color pure white with yellow cup, faintly edged red on opening. 7c each; 75c per dozen; \$5.50 per 100.

**ELVIRA.** Pure white with yellow eye, large flower of good substance, 3 to 4 flowers on a stem; strong grower. 7c each; 75c per dozen; \$5.50 per 100.

**JUANE A. MERVEILLE.** Yellow perianth with golden yellow eye, flower of perfect shape, tall, strong stem; the finest yellow variety. 12c each; \$1.00 per dozen; \$8.00 per 100.

**IRENE.** Sulphur yellow changing to light yellow, orange eye; large broad truss bearing 8 to 9 flowers. 10c each; \$1.00 per dozen; \$6.50 per 100.

**TRIUMPH.** Perianth white, with yellow eye, the largest flower of this section; 3 to 4 flowers on a stem. 10c each; \$1.00 per dozen; \$6.50 per 100.

## Polyanthus Narcissus

Beautiful, free flowering, deliciously sweet scented flowers of the easiest culture; suitable for forcing or for growing in water in the same way as the Chinese Sacred Lilies. Their tall spikes of bloom bear from 6 to 12 flowers each. If planted in open borders, they must be well protected by a covering of litter.

**PAPER WHITE GRANDIFLORA.** An improved large flowering form of the Paper White, possessing all the good qualities of that popular and easily-grown variety. It is more vigorous and earlier, producing pure white flowers of large size and good substance in large trusses. Is largely used for early forcing for cut flowers, being brought in without difficulty early in December. Can be grown in bowls of water and pebbles the same as Chinese Lilies.

Selected Bulbs, 5c each; 50c per dozen; \$3.50 per 100.

**Mammoth Bulbs,** of special value for growing in water. 7c each; 75c per dozen; \$5.00 per 100.

**GRAND MONARQUE.** Pure white flowers of largest size, with yellow cup; borne on large heads. 10c each; \$1.00 per dozen; \$6.50 per 100.

**GRAND SOLIEL D'OR.** Rich yellow flower with orange cup. 15c each; \$1.50 per dozen; \$10.00 per 100.

**GLORIOSA.** White with orange cup, 10c each; \$1.00 per dozen; \$6.50 per 100.

**MONT CENIS.** A splendid large flowered variety having broad round over-lapping petals of white, and large rich yellow cup; of compact growth, carrying large clusters of flowers. 10c each; \$1.00 per dozen; \$6.50 per 100.

**MIXED POLYANTHUS NARCISSUS.** ..7c each; 70c per dozen; \$5.00 per 100.

## Jonquils

Excellent for early blooming. Charming, large, golden and deliciously odoriferous flowers, freely produced, of the finest effect either in garden, greenhouse or conservatory. May be successfully grown by everyone. Put six in a five-inch pot and treat same as Hyacinths.

**CAMPERNELLE RUGULOSUS DOUBLE-FLOWERING,** a double form of the large flowering Campernelle; a novelty of great merit. 6c each; 60c per dozen; \$4.00 per 100.

**DOUBLE,** fine golden yellow, very fragrant. 6c each; 60c per dozen; \$4.00 per 100.

**ODORUS RUGULOSUS, SINGLE,** large flowering, deep yellow, crinkled flowers, exceedingly fragrant and very desirable for forcing or open garden. 6c each; 60c per dozen; \$4.00 per 100.

**SINGLE,** sweet scented, deep yellow. 6c each; 50c per doz.; \$3.50 per 100.



Narcissus Paper White Grandiflora



Chinese Sacred Lily

## Chinese Sacred Lily OR ORIENTAL NARCISSUS

All orders should include these bulbs, as they have become most popular through their own merits, flowering in water and gravel in five or six weeks from time of planting.

They grow well in pots of soil, but the most popular way of blooming them is as follows:

Put about one inch of sand in a shallow bowl, or similar vessel, about four inches deep; place the bulb on this and pack it firmly with small pebbles or pieces of rock; then fill it with water to the top of pebbles and place in a warm, sunny window. The bulb will at once commence a rapid growth and bloom in five or six weeks. Add fresh water as often as necessary.

It is not absolutely necessary to put the bulb in the dark, but, if shaded until the leaves begin to grow, better results may be obtained. By making a small incision across the top of the bulb, in two or three places, about three-quarters of an inch from the center it will cause a fresh lot of leaves and flower stalks to start from these points. This must be done with care, so as not to injure the bulb—simply cut the skin. For a window ornament they are unexcelled, and lend to an interior a cheerful aspect when all outside is frostbound and dreary. The effect is heightened when several are put in a large dish. They can be planted at different times, and have a succession of flowers all winter. Flowers often double and single from the same bulb.

**SELECT BULBS,** 15c each (if by mail, 20c each); by express not prepaid \$1.25 per dozen.

Original baskets containing 30 bulbs, \$3.00.

**LILY BOWLS.** For Chinese Sacred Lilies and Polyanthus Narcissus: Imitation cut glass, to hold one bulb, 25c each; 3 bulbs, 30c each.

**PEBBLES,** for filling Lily Bowls, 10c per quart.

If you want Flowers in your House this winter or in your Garden next spring, you must plant Bulbs this fall.

## Calla Lilies

### RICHARDIA

An old favorite, and of easy culture, the only requisite for successful culture being rich soil and plenty of water when growing. By allowing them to rest through the summer, an abundance of bloom may be had the following winter.

#### WHITE CALLA OR LILY OF THE NILE

This old favorite is too well known to require any description.

Monster Bulbs, postpaid-----30c each; \$3.00 per dozen  
Extra Large Bulbs, postpaid-----25c each; \$2.50 per dozen  
Large Bulbs, postpaid-----20c each; \$2.00 per dozen

**ELLIOTTIANA.** A yellow Calla of great beauty. It has the habit of growth of the white variety, with flowers of same size and shape, but of a rich golden yellow color; the foliage is dark green, with a number of creamy white spots, which add much to its beauty. 40c each; \$4.00 per dozen.

**GODFREY OR EVERBLOOMING CALLA.** Short, sturdy growth; very free flowering; medium sized white flowers; excellent for cutting. 20c each; \$2.00 per dozen.  
Extra Large Bulbs, 35c each; \$3.00 per dozen.

## Chionodoxa

### GLORY OF THE SNOW

A hardy, early flowering bulbous plant which is closely allied to the Scilla but differs among other characters in having short tube to the Corolla. A good companion to the Scilla and Snowdrop.

**GIGANTEA.** Light blue, white eye, large flowered. 7c each; 70c per dozen; \$5.00 per 100

**LUCILLAE.** Bright blue with white eye. 5c each; 45c per dozen; \$3.00 per 100.

## Grape Hyacinths

### MUSCARIA

Charming, hardy spring flowering bulbs. They are something like the Hyacinth but the clusters are smaller and the individual flowers are smaller and of different shape; invaluable for naturalization.

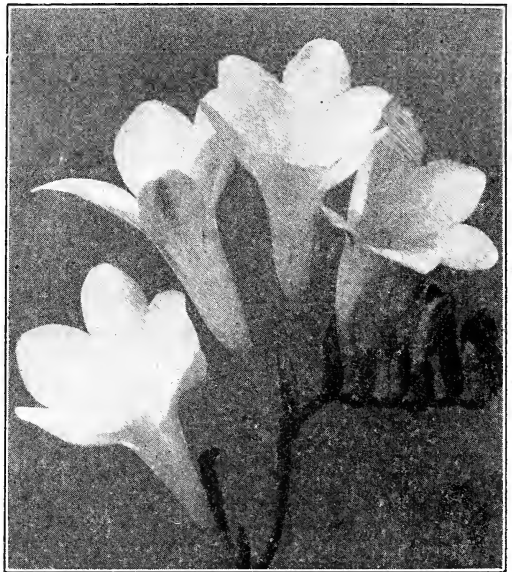
**BOTRYOIDES ALBA.** White. 5c each; 45c per dozen; \$3.00 per 100.

**BOTRYOIDES COERULEA.**  
Blue 5c each; 35c per dozen;  
\$2.50 per 100.

**HEAVENLY BLUE.** The best and largest of the Grape Hyacinths. Good for pot culture as well as for outdoors. 5c each; 45c per dozen; \$3.00 per 100.



Dutch Iris



Freesia, Improved Purity

## Freesia

This is one of the most popular and charming bulbs we offer for pot culture, flowering in the winter and spring, in the conservatory or window garden. Six bulbs should be planted in a four inch pot. They force rapidly, and can be had in bloom by Christmas if desired. The flowers are produced six to eight on stems about nine inches high, and are particularly useful for cutting, remaining in good condition, kept in water, for two weeks.

**IMPROVED PURITY.** A distinct and greatly improved type producing large sprays of pure white flowers with a yellow blotched throat of immense size and delicious fragrance. It is very free blooming and of great value for forcing for cut flowers.

Large Bulbs -----25c per dozen; \$1.50 per 100  
Mammoth Bulbs -----40c per dozen; 2.50 per 100  
Monster Bulbs -----60c per dozen; 4.00 per 100

**RAINBOW.** We can now supply this long waited for, beautifully colored Freesia.

Lavender, Large Bulbs.....65c per dozen; \$5.00 per 100  
Orange, Large Bulbs.....65c per dozen; 5.00 per 100  
Pershing, Pink, large bulbs 65c per dozen; 5.00 per 100  
Finest Mixed, all colors.....50c per dozen; 3.50 per 100

## Dutch Iris

### IRIS HOLLANDICA

These Irises are results of crosses between early flowering South-European and African species. They produce very large substantial flowers and bloom fully two weeks earlier than Spanish Iris.

These sorts are really worth twice what the regular Spanish Irises are worth. They are larger and stronger and will usually have two blooms to each spike. Force some of these early sorts. Should be grown in a cool house.

**HARTZ.** Lips grey lilac, flaked yellow; standards purple-blue. 7c each; 70c per dozen; \$5.00 per 100.

**BRIJET.** Porcelain blue with grey lilac. 7c each; 70c per dozen; \$5.00 per 100.

**DAVID TENIERS.** Lemon yellow, lavender blue falls. 7c each; 70c per dozen; \$5.00 per 100.  
**C. VAN DE WINDT.** White with clear yellow blotch in falls. 7c each; 70c per doz.; \$5.00 per 100.

**HART NIBBRIG.** Largest clear blue. 7c each; 70c per dozen; \$5.00 per 100.

### LILY OF THE VALLEY

This popular and fragrant flower should receive more attention than is usually given.

Like most other plants it well repays for being well treated, and if given a liberal top-dressing of well-rotted stable or sheep manure in fall or early spring, it will show the effect by increased size and vigor of the flowers. We offer strong clumps suitable for out door planting. 50c each; \$5.00 per dozen; \$40.00 per 100; by mail 60c each.

## SUBURBAN LAWN GRASS SEED

Suburban Lawn Grass Seed, sown in fall, makes beautiful and permanent lawns. It is also a good time to repair damage done by fall grass, by raking it out as soon as it dies down and sowing Lawn Grass on the bare spots.

# LILIES

No class of plants capable of being cultivated out of doors possesses so many charms. Rich and varied in color, stately and handsome in habit, profuse in variety, and of delicious fragrance, they stand out prominently from all other hardy plants, and no herbaceous border, however select, should be without a few of its best sorts. With a well selected collection, *Liliums* may be had in bloom from June until October.

**Culture.** They should be planted in good, rich, loamy soil, abundantly mixed with very rotten cow manure. Plant about four inches deep, and during the winter it is advisable to cover the surface of the bed with a thin layer of manure, which will not only afford a slight protection to the bulbs, but will materially enrich the soil. In spring the manure may either be removed or dug in between the rows.

**Pot Culture.** The best soil to use is a rich loam, with the addition of one-third well-rotted manure. Select a large sized pot, say eight or ten inches, so as to allow of deep planting—a most essential matter where there are upper roots to protect. Dust a little charcoal about the bulb to keep it fresh, and cover at least two inches with soil.

After potting, one of the most important things to observe is the proper placing of the pots containing the bulbs. Like all other bulbs, to get the best results in flowering, the pots must be filled with roots before the top starts to grow; and to do this, they must be placed in some cool place and excluded from the light, until, on examination the roots are found to be formed around the ball of earth.

Orders for Lilies cannot be filled before November, excepting *Candidum* and *Harrisii*, which are ready August 1.

Prices on single bulbs are postpaid. By the dozen or hundred, they will be forwarded at expense of purchaser.

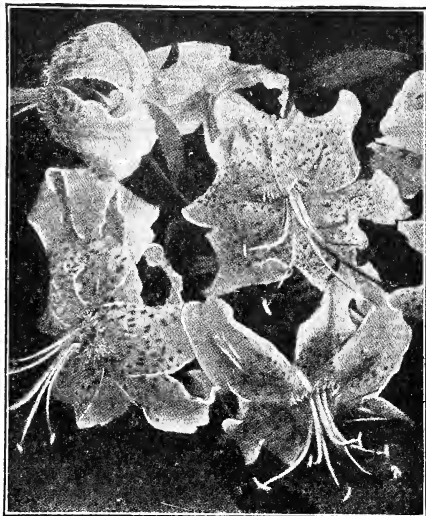
**AURATUM.** (Golden-banded Lily.) Undoubtedly one of the finest. Its large, graceful, fragrant flowers are composed of six petals of a delicate ivory-white color, thickly studded with chocolate crimson spots, and striped through the center with a golden yellow band; 3 to 5 feet.

Large Bulbs, 8 to 9 inches, 30c each; \$2.50 per dozen; \$20.00 per 100.

Extra Large Bulbs, 9 to 11 inches, 40c each; \$4.00 per dozen; \$30.00 per 100.

**CANDIDUM.** (Annunciation or Madonna Lily.) The flowers are pure white and very fragrant, borne on long stems. To succeed with it, it should be planted early in the autumn, so that it can make some growth before frost; 3 to 4 feet; May-June.

Extra Large Bulbs, 25c each; \$2.25 per dozen; \$17.50 per 100.



*Lilium Auratum*

**HARRISII.** (Bermuda Easter Lily.) This splendid Lily is undoubtedly one of the best for house culture, as it comes quickly into bloom and flowers freely. The flowers are trumpet-shaped, pure waxy-white and delightfully fragrant.

Large Bulbs, 5 to 7 inches, 25c each; \$2.25 per dozen; \$17.50 per 100.

Extra Large Bulbs, 7 to 9 inches; 40c each; \$4.00 per dozen; \$30.00 per 100.

**HENRYI.** A splendid lily from the mountains of China. It grows 4 to 5 feet high, producing large panicles of orange-yellow flowers, banded with green. 50c each; \$5.00 per dozen.

**LONGIFLORUM FORMOSUM.** The plant grows about 3 feet high and produces beautiful, snow white, trumpet-shaped flowers, 6 to 8 inches long. It is perfectly hardy, blooming in the open in June and July. This Lily is also a very important winter flowering type.

Large Bulbs, 7 to 9 inches, 35c each; \$3.50 per dozen; \$25.00 per 100.

**LONGIFLORUM GIGANTEUM.** A splendid type, later flowering than the others, but of strong, free, healthy growth, and while it can be forced into bloom for Easter it is just the thing for Decoration Day and later flowering; quite hardy and good for outdoor planting.

Large Bulbs, 7 to 9 inches 35c each; \$3.50 per dozen; \$25.00 per 100.

**REGAL** (The Regal Lily.) This grand new species is acknowledged to be the finest Lily in cultivation and is undoubtedly the most popular novelty that has been offered for many years. It is absolutely hardy and is excellent for forcing under glass. The white flowers are long, trumpet-shaped, slightly suffused with pink, with a beautiful shade of canary yellow at the centre, extending part way up the trumpet. It is delightfully perfumed, but without the heavy, oppressive odor of most Lilies. 65c each; \$6.50 per dozen.

**SPECIOSUM.** "Japan Lily." The varieties of this class are magnificent border plants, and also excellent for pot culture. All are perfectly hardy, and are among the most satisfactory Lilies to grow.

**Speciosum Album.** Pure white, very fragrant. Large bulbs, 8 to 9 inches, 30c each; \$2.50 per dozen; \$20.00 per 100.

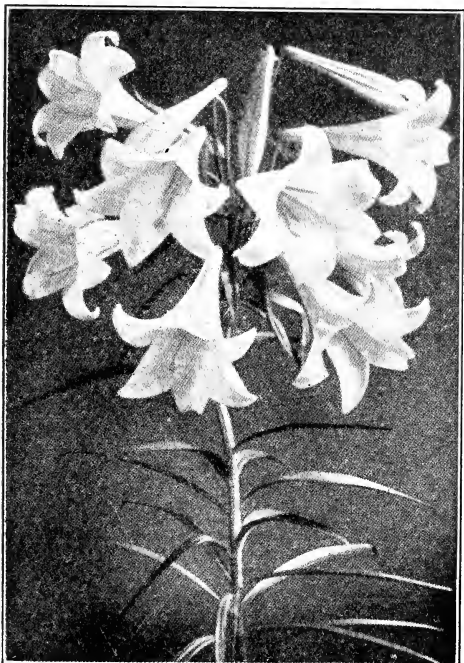
Extra large bulbs, 9 to 11 inches, 40c each; \$4.00 per dozen; \$30.00 per 100.

**Speciosum Rubrum** or **Roseum.** White, suffused and spotted with crimson. Large bulbs, 8 to 9 inches, 35c each; \$3.50 per dozen; \$25.00 per 100.

Extra large bulbs, 9 to 11 inches, 50c each; \$5.00 per dozen; \$35.00 per 100.

**TIGRINUM.** "Tiger Lily." Orange-salmon, spotted with black. 25c each; \$2.25 per dozen; \$17.50 per 100.

If you contemplate making a Lily bed, kindly give us dimensions of same, and we will be pleased to submit you an estimate, stating suitable varieties and lowest cost.



*Lilium Longiflorum Giganteum*

If you want Flowers in your House this winter or in your Garden next spring, you must plant Bulbs this fall.



## Scilla Squills—Harebell

Very early flowering bulbs, doing well in ordinary soil, producing fine, graceful spikes of bell-shaped flowers. Very showy and attractive as pot plants, and require about the same treatment as Hyacinths.

The Scilla Campanulata are splendid for naturalizing, because they will flower in shady places.

Scilla Siberica is used as a companion to Crocus for borders or massing.

**Campanulata Blue Queen.** Large, bright blue flowers. 6c each; 50c per doz.; \$3.50 per 100.

**Siberica.** A perfect gem, with flowers of richest blue dwarf and hardy, excellent planted with Crocus and Snowdrops, or in borders and massing. 7c each; 70c per dozen; \$5.00 per 100.

**Hyacinth Glasses** Hyacinth Glasses and Lily Bowls CAN NOT be sent by mail.

**BELGIAN OR TALL SHAPE.** Blue, Claret, Crystal and Green colors. 35c each; \$3.50 per dozen.



**MATT GREEN HYACINTH VASES.** Tye pattern. 50c each; \$5.00 per dozen.

If you want Flowers in your House this winter or in your Garden next spring, you must plant Bulbs this fall.

## McCULLOUGH'S SELECTED FLOWER SEEDS FOR FALL AND WINTER SOWING

On the following pages we give a list of the **Best Hardy Perennials** which are now so deservedly popular. Sown this fall in a cold frame or protected corner of the garden, you can have, with little trouble, an abundant supply of Columbines, Canterbury Bells, Delphiniums, Foxgloves, Gaillardias, Hollyhocks, Forget-me-nots, Daisies, Sweet Williams, etc., the following season. The list also includes a choice selection of other Flower Seeds for autumn sowing, such as Cyclamens, Pansies, Primulus, etc.

- 1—**ABUTILON.** (Chinese Bell Flower.) Finest mixture. Half hardy perennial. -----10c pkt.  
9—**ALYSSUM, Little Gem** or **Carpet of Snow.** Dwarf compact habit; pure white flowers.  $\frac{1}{4}$  oz., 20c; oz., 60c; 10c pkt.  
11—**ALYSSUM, Sweet.** Of trailing habit; flowers white. Hardy annual.  $\frac{1}{4}$  oz., 15c; oz., 30c; 10c pkt.  
ANTIRRHINUM. (Snapdragon.) Half-hardy Perennial.

### TALL, GIANT FLOWERING

- 17—**Brilliant.** Scarlet, gold and white. -----10c pkt.  
18—**Fire King.** Scarlet with orange. -----10c pkt.  
19—**Golden King.** Golden yellow flowers. -----10c pkt.  
20—**Queen Victoria.** Very beautiful, bearing immense flowers, white shaded cream, with lemon-colored lip. The best white. 10c pkt.  
21—**Silver Pink.** Delicate rosy pink, seemingly covered with a silver sheen. 10c pkt.  
22—**Venus.** Light rose, white throat -----10c pkt.  
23—**Special Collection.** One packet each of the above 6 varieties, 50c.  
24—**Tall Giant Mixed.** A splendid mixture, containing all the colors, magnificent large individual flowers.  $\frac{1}{4}$  oz., 30c; oz., \$1.00; 10c pkt.

### SEMI-DWARF GIANT FLOWERING ANTIRRHINUM

Are particularly good for bedding, as they require no staking. The flowers are most wonderful, in many new shades and tints.

- 26—**Daphne.** Blush pink -----10c pkt.  
27—**Defiance.** Fiery scarlet -----10c pkt.  
28—**Firebrand.** Bright scarlet, yellow lips -----10c pkt.  
29—**Golden Queen.** Pure yellow -----10c pkt.  
29 $\frac{1}{2}$ —**Nelrose.** Deep rose pink -----10c pkt.  
30—**Queen of the North.** Pure white, long spikes -----10c pkt.  
31—**Special Collection.** One packet each of the above 6 varieties, 50c.  
33—**Half-Dwarf Mixed.** Large variety of colors; best for bedding.  $\frac{1}{4}$  oz., 25c; 10c pkt.

## Snowdrops

One of the earliest white flowers of spring. They should be planted in beds in the border, or in clumps in the lawn, and will endure any amount of hard treatment; still, no flower better repays care and attention. Plant the bulbs in September or October—the earlier the better—to enable them to become well-established before freezing weather. Set about two or three inches deep, and one inch apart, in clumps or triple rows; if planted singly they are not conspicuous. The bulbs should not be kept long out of the ground, and should not be disturbed often than once in 2 or 3 years. For growing in pots or baskets, the double are the better.

**Single Flowering,** 5c each; 45c per dozen; \$3.00 per 100.

**Double Flowering,** 6c each; 60c per dozen; \$4.00, 100.

## Lily Bowls

For Chinese Sacred Lilies and Polyanthus Narcissus

**LILY BOWLS,** Prepared Fibre, to hold 3 bulbs, 25c each.

**MATT GREEN LILY BOWLS,** to hold 3 bulbs, 25c each; 4 bulbs, 40c each; 6 bulbs, 75c each.

**FANCY LILY BOWLS.** Assorted colors, to hold 3 bulbs, 50c each; 4 bulbs, 75c each; 6 bulbs, \$1.00 each.

**MARBLE CHIPS** for filling Lily Bowls, -----5c per lb.

**PEARL CHIPS** for Lily Bowls, -----25c per lb.

**PEBBLES,** for filling Lily Bowls, -----10c per quart.

**MICA GRIT,** for filling Lily Bowls, -----15c per quart.

## Prepared Bulb Fibre

Growing bulbs, such as Roman Hyacinths, Dutch Hyacinths, Tulips and Narcissus in special prepared fibre has proven a great success. 50c per peck; \$1.75 per bushel.

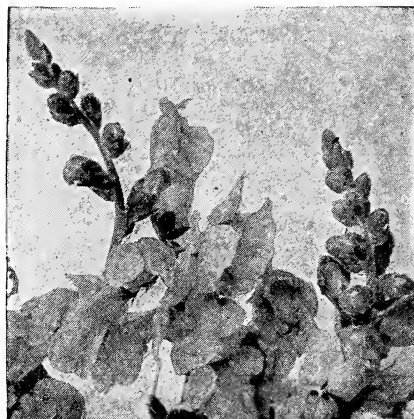
**AQUILEGIA, OR COLUMBINE.** Hardy Biennial.

92—**Coerulea Hybrids, "Rose Queen."** Large, long-spurred flowers, shading from light pink to dark rose with white center and yellow anthers. 3 pkts., 25c; 10c pkt.

93—**McCullough's Long-Spurred Hybrids.** Blue, white, yellow, orange, scarlet and bright rose-pink in large flowers with long spurs. 3 pkts., 25c; 10c pkt.

94—**Double.** All colors, mixed,  $\frac{1}{4}$  oz., 25c; 10c pkt.

95—**Single.** All colors, mixed.  $\frac{1}{4}$  oz., 25c; 10c pkt.



Snapdragon

All 10c Packets of Flower Seeds are 3 Packets for 25c; 13 Packets for \$1.00.

# FLOWER SEEDS—Continued

**BELLIS.** (English Daisy.) Half-hardy perennials.  
108—Longfellow. Large, double, dark pink. 10c pkt.  
109—Snowball. Double white flowers. 10c pkt.  
110—Giant Double Mixed. Extra fine mixture. 10c pkt.  
112—**CALCEOLARIA, Hybrida Grandiflora.** Large flowers of fine form, rich colors, beautifully spotted and marbled; finest strain in cultivation. Greenhouse perennial. 25c pkt.

**CAMPANULA.** (Canterbury Bells.) Hardy biennial.  
**Calycanthema.** (Cup and Saucer Canterbury Bells.)  
120—Pink. Delicate rosy-pink. 10c pkt.  
121—Blue. A fine clear shade. 10c pkt.  
122—White. Pure white. 10c pkt.  
123—Finest Mixed. All colors of the Cup and Saucer type. 1/4 oz., 50c; 10c pkt.  
**Medium.** (Single Canterbury Bells.)  
124—Single Mixed. All colors. 1/4 oz., 30c; 10c pkt.  
125—Double Mixed. All the double-flowering medium varieties. 1/4 oz., 40c; 10c pkt.

**CANDYTUFT.** Hardy annual.  
127—Giant Hyacinth Flowered. Pure white flowers in a pyramid of bloom. 1/2 oz., 25c; oz., 40c; 10c pkt.  
128—Rose Cardinal. Bright carmine rose. 10c pkt.  
129—White Rocket. Pure white. oz., 25c; 10c pkt.  
130—Dwarf Hybrids Mixed. 10c pkt.  
131—Mixed Colors. 1/2 oz., 15c; oz., 25c; 10c pkt.

**HARDY CANDYTUFT.** (See Iberis.)

**CARNATION.** Half-hardy perennials. Indispensable both for greenhouse culture in winter and the garden in summer.

134—Earliest French Mixed. 1/4 oz., 50c; 10c pkt.

136—Marguerite. Is best for summer flowering. Finest mixed; excellent for cutting. 1/4 oz., 50c; 10c pkt.

163—**CINERARIA, Hybrida Grandiflora.** Large flowering exhibition varieties embracing the richest and most varied showy and attractive colors. Greenhouse or tender annual. 25c pkt.

119—**COREOPSIS, Lanceolata Grandiflora.** Bright golden yellow flowers with broad fringed petals on long stems; excellent for cutting. Hardy perennial. 1/4 oz., 25c; 10c pkt.

183—**CYCLAMEN, Giant-Flowered.** (Persicum Giganteum.) A popular pot-plant for winter and spring-flowering. Seedlings bloom in eight to ten months. Greenhouse perennial. Best strains, mixed. 25c pkt.

**DELPHINIUM.** (Hardy Perennial Larkspur.) Hardy perennial.

187—Giant-Flowering Hybrids. These magnificent Hybrids, produce beautiful spikes of immense flowers, single, semi-double and double. Flower spikes are from 2 to 3 feet in length. Colors are beautiful, ranging from pure white through all shades of lavender and blue. 10c pkt.

188—Belladonna. (Everblooming Hardy Larkspur.) Free blooming Hardy Larkspur, never being out of flower from the end of June until frost. The clear turquoise-blue of its flowers is not equaled for delicacy and beauty by any other flower. 10c pkt.

188 1/2—Bellamosum. Beautiful spikes of dark blue flowers. 10c pkt.

191—Chinese Varieties, Mixed. Contain a great variety of shades, from pure white to gentian-blue. 10c pkt.

196—**DIANTEUS.** Plumaris Semperflorens. (Everblooming Hardy Garden Pink.) Very beautiful, sweet-scented, double, semi-double and single flowers in great diversity of colors. 10c pkt.

**DIANTHUS BARBATUS.** (See Sweet William.)

202—**DIGITALIS.** (Foxglove.) Hardy biennial. A splendid strain; 3 to 5 feet. Finest Mixed. 10c pkt.

213—**GAILLARDIA.** Grandiflora. (Blanket Flower.) The flowers are of enormous size and the colors the most varied; in flower for about three months. Hardy perennial. 2 feet. 10c pkt.

237—**HIBISCUS.** (Marshmallow.) Mallow Marvels. Immense flowers from 8 to 10 inches in diameter, in the following colors: fiery-crimson, blood-red, shell-pink and white. Hardy perennial. 10c pkt.

**HOLLYHOCK.** For planting among shrubbery or forming a background for other flowers, it is without an equal. Hardy perennial.

238—Chater's Double Pink. 10c pkt.

239—Chater's Double Rose. 10c pkt.

240—Chater's Double Scarlet. 10c pkt.

241—Chater's Double White. 10c pkt.

242—Chater's Double Yellow. 10c pkt.

243—Chater's Prize, Double Mixed. Unrivalled in richness and delicacy of coloring. 3 pkts., 25c; 10c pkt.

245—Mammoth Fringed Allegheny. Mammoth flowers; the colors range from the palest shrimp-pink to deep red. 6 to 7 feet. 3 pkts., 25c; 10c pkt.

246—Single. Finest Mixed; all colors. 10c pkt.

**IBERIS.** (Hardy Candytuft.)

251—Sempervirens. A white-blooming plant, coming in flower early in the spring; much used for cemeteries, rockeries, etc.; 1 foot. Hardy perennial. 10c pkt.

**LATHYRUS.** (Everlasting, or Hardy Pea.) Free-flowering climbers; continually in bloom; fine for cutting. Hardy perennial.

260—Latifolius "White Pearl." The finest white. 10c pkt.

261—Pink Beauty. Rosy pink. 10c pkt.

262—Mixed. All colors. 1/4 oz., 20c; oz., 50c; 10c pkt.

**MIGNONETTE.** (Reseda.) Half-hardy annual.

277—Defiance. Enormous spikes, with individual florets of immense size; fragrant; excellent for forcing. 1/4 oz., 25c; 10c pkt.

278—Machet. Dwarf pyramidal growth, large spikes; fragrant; one of the best for forcing. 1/4 oz., 20c; 10c pkt.

279—Sweet-Scented. The old variety but very sweetly scented. 1/4 oz., 20c; 10c pkt.

**MYOSOTIS.** (Forget-me-not.) Half-hardy perennial.

287—Alpestris Victoria. Early flowering, of bushy habit, bearing large, bright azure-blue flowers. 10c pkt.

288—Palustris. The true Forget-me-not; beautiful blue flowers; 6 inches. 10c pkt.

289—Palustris Semperflorens. A dwarf Forget-me-not continuing in bloom from early spring until autumn; blue flowers. 10c pkt.

**PHLOX DECUSSATA.** Hardy perennial.

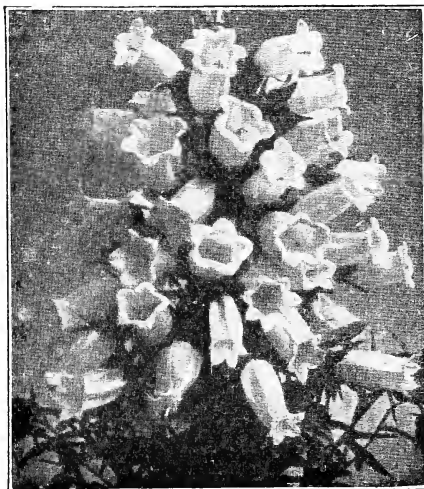
369—Mixed. In the greatest variety of colors. 3 feet. 10c pkt.

**POPPY.** Hardy Perennials. Iceland. (Papaver Nudicaule) Of neat habit, with bright green, fern-like foliage, formed in tufts, bearing brilliant flowers in endless profusion on slender stalks about 12 inches high.

385—Finest Mixed. All colors. 1/4 oz., 30c; 10c pkt.

383—**ORIENTALE.** (The large Oriental Poppy.) Large deep crimson flowers, having a conspicuous black blotch on each petal; exceedingly showy. 1/4 oz., 30; 10c pkt.

384—Orientale Hybrids. Produce flowers of immense size and of many novel colors, such as salmon, pink, cherry, etc. 1/4 oz., 50c; 10c pkt.



CAMPANULA



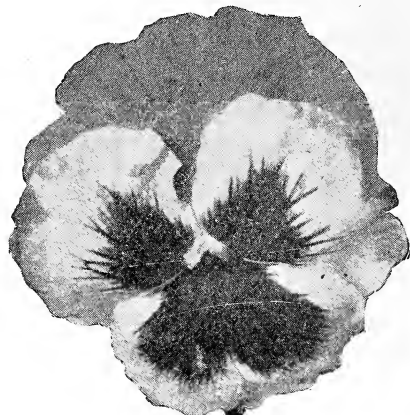
## FLOWER SEEDS—Continued.

## Pansy

Pansy seed has always been a leading specialty with us. Seed germinates best while soil is still cool and moist. Would advise sowing in shallow drills in seed-bed early in spring when the trees are starting out in leaf, and again in September when the weather becomes cool. Plants from the spring-sown seed flower with great freedom throughout spring, summer and fall, while the stocky young plants grown in fall and winter produce the largest and finest flowers early the following spring. Take care of the weakest looking seedlings, as they usually give the finest flowers. Half-hardy Perennial.

## GIANT FLOWERED PANSIES

- 327—Blue Perfection. The best dark blue flowers of immense size  $\frac{1}{2}$  oz., 50c; 15c pkt.  
 328—Bridesmaid. White shining rose, beautifully blotched.  $\frac{1}{2}$  oz., 50c; 15c pkt.  
 329—Bugnot's Superb Blotched. A French strain of extra large size, choicest colors, with beautiful broad blotches and delicate pencilings. Finest mixed.  $\frac{1}{2}$  oz., 75c; 20c pkt.  
 330—Canary Bird. Giant five-spotted yellow.  $\frac{1}{2}$  oz., 60c; 15c pkt.  
 331—Cassier's Giant. A very showy strain saved from large and beautifully blotched flowers.  $\frac{1}{2}$  oz., 60c; 15c pkt.



GIANT PANSY

- 332—Gold Queen. Golden yellow, very fine.  $\frac{1}{2}$  oz., 50c; 10c pkt.  
 333—King of Blacks. Lustrous jet black flowers of immense size.  $\frac{1}{2}$  oz., 50c; 10c pkt.  
 334—Madame Perrett. Colors dark wine, pink and red, with edges of petals frilled and bordered white.  $\frac{1}{2}$  oz., 50c; 10c pkt.  
 335—Masterpiece. The enormous flowers are borne well above the foliage on strong stems. The petals of the flowers are waved or curled and contain the richest colors. Each petal is distinctly marked with a large dark blotch and most of the flowers are margined with a light, white or yellow edge.  $\frac{1}{2}$  oz., 60c; 15c pkt.  
 336—Orchid Flowered. Beautiful light shades, large frilled flowers.  $\frac{1}{2}$  oz., 50c; 15c pkt.  
 337—Snowflake. The finest and largest pure white flowers.  $\frac{1}{2}$  oz., 50c; 10c pkt.  
 338—Triumph. A beautiful, showy class, very large frilled flowers, in a great variety of rich colors; extra fine.  $\frac{1}{2}$  oz., 75c; 20c pkt.  
 339—McCullough's "Premier." The cream of American and European Specialists. In this magnificent mixture of mammoth-flowering Pansies the blossoms are borne on long stems well above the foliage and are distinguished for their gorgeous and varied colorings and beautiful markings; of fine substance, velvety texture, perfect form, and giant size, frequently measuring 3 inches in diameter. The colorings are wonderfully rich and varied; every shade and tint of rose, canary-yellow, black, white, cream, lavender, garnet, sky-blue and orange are produced in endless variation.  $\frac{1}{2}$  oz., \$1.00;  $\frac{1}{4}$  oz., \$1.75; 25c pkt.  
 340—McCullough's Special Mixture. A superior mixture, selected from choice, large flowering strains. This strain is one of great excellence, the individual flowers being superb and include many fine shades in a number of colorings, and is intended to supply the want of a first-class mixture at a moderate price.  $\frac{1}{2}$  oz., 60c;  $\frac{1}{4}$  oz., \$1.00; 15c pkt.  
 341—McCullough's Choice Mixed. Great diversity of colors, free flowering; blossoms are slightly smaller than the Giant sorts.  $\frac{1}{2}$  oz., 30c;  $\frac{1}{4}$  oz., 50c; 10c pkt.  
 344—PETUNIA. Double Grandiflora Mixed. Choicest strains of fine colors and large flowers. Hardy annual. 25c pkt.  
 345—Single. McCullough's Mammoth. The finest mixture of petunias procurable. 3 pkts., 50c; 20c pkt.

PRIMULA. They are one of the most important winter-blooming pot plants in the home or conservatory.

- 392—Chinensis Fimbriata. Finest Mixed. All colors. 20c pkt.  
 393—Obconica Grandiflora. Large flowers with finely fringed and to other petals; a beautiful pot plant. 10c pkt.  
 394—Obconica Gigantea. Strong vigorous growth with immense heads of large individual blooms. 2 pkts., 25c; 15c pkt.  
 395—Forbesi. (Baby Primrose.) Rosy lilac flowers; fine for pots. 3 pkts., 25c; 10c pkt.  
 396—Malacoides. A fine house plant, somewhat like P. Forbesi, but larger in all its parts; flowers delicate lilac. 15c pkt.

HARDY PRIMROSE. These are among the best of the early spring-blooming plants. Half-hardy perennial.

- 397—Primula Auricula. Finest mixed. Extra choice; saved from a prize collection. 10c pkt.  
 398—Primula Veris. (Polyanthus.) Splendid colors; extra fine. 10c pkt.

- 399—Primula Vulgaris. True English Primrose; canary yellow, fragrant flowers. 10c pkt.

- 400—PYRETHRUM. Single Hybrids. Large flowers and choicest colors; saved from named varieties. Hardy perennial. Finest mixed. 10c pkt.

- 421—SCABIOSA. Caucasica. (Blue Bonnet.) Especially valuable for cutting, the blooms lasting a long time in water; lilac-blue; 3 feet. Hardy perennial. 0c pkt.

- 162—SHASTA DAISY. A grand, large-flowering Daisy of hardy, robust growth; white flowers. 3 pkts., 25c; 10c pkt.

- 425—STOCK (Gilliflower). McCullough's Cincinnati Market. A grand variety producing one long sturdy spike closely set with enormous double white flowers: a fine forcer.

- 426—Princess Alice. (Cut and Come Again.) Pure white clusters of fragrant blossoms; excellent for cutting.

- 440—STOKESIA (Cornflower or Stokes' Aster) Cyanea. A hardy perennial, producing handsome lavender-blue, cornflower-like blossoms; in full bloom from July till frost; one of the best hardy border plants. 10c pkt.

- SWEET WILLIAM (Dianthus Barbatus). Hardy perennial.

- 449—Holborn Glory. The flowers are of extraordinary size and color, all showing a clear, white eye. 10c pkt.

- 450—McCullough's Selected Single Mixed. A very choice assortment of all the best single-flowering varieties. 10c pkt.

- 453—Double Mixed. This mixture you will find of very superior quality, containing all colors and shades. 10c pkt.

- VINCA (Madagascar Periwinkle, or Old Maid). Ornamental, free-blooming plants. Tender annuals.

- 501—Rosea. Rose, dark eye. 10c pkt.

- 502—Alba Rosea. White, crimson eye. 10c pkt.

- 503—Alba Pura. Pure white. 10c pkt.

- 504—Mixed.  $\frac{1}{4}$  oz., 30c; 10c pkt.

VERBENA. Half-hardy annuals.

- 505—Gigantea Lucifer. Flowers intense brilliant scarlet with no eye. 10c pkt.

- 506—Gigantea Finest Mixed. Choice mixture of colors. 10c pkt.

- 507—Mammoth Defiance. Brilliant scarlet, fine for bedding. 10c pkt.

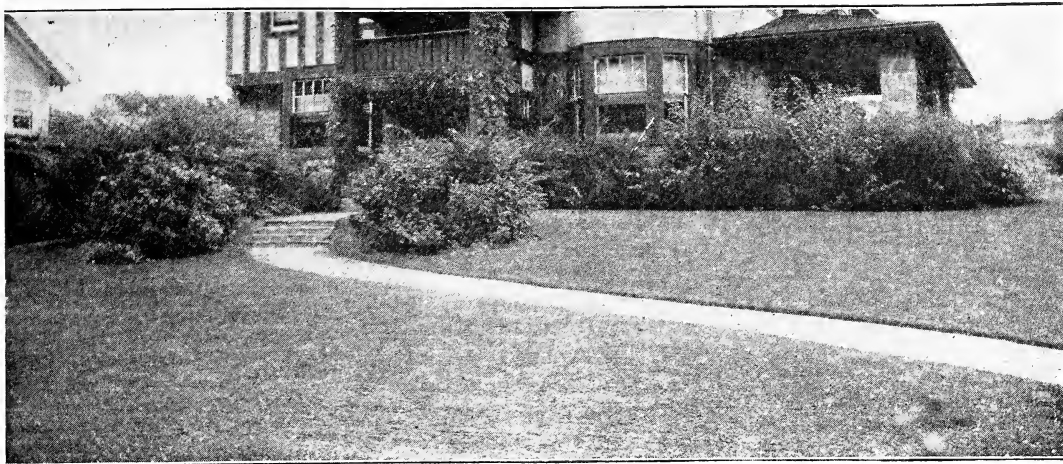
- 508—Mammoth Candidissima. Large trusses of pure white flowers.

- 509—Mammoth Blue. Bright blue, in various shades.

- 510—Mammoth Pink. Bright shades of pink. 10c pkt.

- 511—Mammoth. Finest Mixed. A fine strain of beautiful colors and shades. 3 pkts., 25c; 10c pkt.

All 10c Packets of Flower Seeds are 3 Packets for 25c, 13 Packets for \$1.00.



## McCullough's "Suburban" Lawn Grass Seed

(Trademark Registered)

McCullough's "Suburban"  
Lawn Grass Seed

Is a mixture of the finest Dwarf Evergreen Grasses that grow and flourish during different months of the year so that a rich, deep green, velvety lawn is constantly maintained. Our mixture is the result of several years' experimenting, and, as we now offer it, is unequalled. The quantity required for making a new lawn is five to six bushels (80 to 96 lbs.) per acre, or for renovating old lawns, three to four bushels (48 to 64 lbs.) per acre, for a plot 15x20, or 300 square feet, one pound is required for a new lawn, or about one-half pound for renovating.

**How to Make a Lawn**—The matchless beauty of a well kept lawn instantly commands the attention of all lovers of the beautiful in Nature, because a fine lawn is an unfailing mark of intelligence and taste, to obtain which, the main point is to start right. Seed will make a better lawn than turf or sod. The best soil is a good medium texture. The surface should be thoroughly pulverized and smoothed to the desired grade; remove all large stones, roots and hardened pieces of earth that can not be readily broken, ample time being allowed for the thorough settling of the soil, which is greatly aided by a few heavy showers of rain. When the soil is firm, level and suitably moist, sow "Suburban" Lawn Grass Seed at the rate of five to six bushels (80 to 96 lbs.) per acre. It is unwise to be too economical in the quantity of seed used, if the best results are desired. The seed should be sown broadcast and as evenly as possible; then give a thorough rolling or pat well with the back of a spade. The seed must be well firmed in the soil. When the young grass attains sufficient height, it should be mown with a lawn mower every week or ten days, according to the season. In dry weather keep the lawn well watered.

**General Surface Renovating**—When your lawn has been established, you will find it to your advantage to lightly re-seed each season. As early as possible, carefully rake off all dead leaves, etc., and give the lawn a dressing of our PULVERIZED SHEEP MANURE, or our PURE BONE MEAL at the rate of at least 300 pounds per acre, and rake in, after which sow our "Suburban" Lawn Grass Seed at the rate of three to four bushels (48 to 64 lbs.) to the acre; roll thoroughly or pat with the back of a spade.

Prices— $\frac{1}{2}$  lb., 25c; 1 lb., 40c; 5 lbs., \$1.85;  $\frac{1}{2}$  bu. (8) lbs., \$2.75; per bu. of 16 lbs., \$5.00.

Postage Must be Added if Wanted by Mail. See Postal Rates, Second Page of Cover.

### "SHADY PLACE" LAWN GRASS SEED

On nearly all lawns there are more or less shady places, which result in having bare and unsightly spots on which the owners have difficulty in securing a satisfactory stand of grass. After many years of experimenting with different grasses, both native and foreign, we several years ago developed our present "Shady Place" Lawn Grass Seed Mixture. This mixture of grasses is adapted for such places, as it is composed of dwarf-growing grasses which are found naturally growing in shady locations. Sow the seed at the rate of four bushels (64 lbs.) per acre, or 1 lb. to each 300 square feet, after which roll thoroughly.

$\frac{1}{2}$  lb., 25c; 1 lb., 45c; 5 lbs., \$2.00;  $\frac{1}{2}$  bu. (8 lbs.), \$2.85; 1 bu. (16 lbs.), \$5.50.

### "EDEN PARK" LAWN GRASS SEED

The quality of this lawn grass seed will compare favorably with a majority of the lawn grass mixtures on the market, as it contains practically the same grasses as our "Suburban," but without re-cleaning.

$\frac{1}{2}$  lb., 20c; 1 lb., 35c; 5 lbs., \$1.50;  $\frac{1}{2}$  bu. (8 lbs.), \$2.25; 1 bu. (16 lbs.), \$4.25.

### TERRACE MIXTURE

There is nothing more annoying than to have ground washed out. In this mixture we have put quick-growing and deep-rooted grasses. Of course, it depends a great deal on this being well started before very heavy rains.

$\frac{1}{2}$  lb., 25c; 1 lb., 40c; 5 lbs., \$1.75;  $\frac{1}{2}$  bu. (8 lbs.), \$2.75; 1 bu. (16 lbs.), \$5.00.

### PUTTING GREEN MIXTURE

Having specialized for over three-quarters of a century

in all varieties of Grass Seeds, and having become familiar with the habits and characteristics of all cultivated grasses, we were prepared to develop the Mixture of Grasses herewith offered by us, after making a careful study of the requirements for producing the most substantial turf for Putting Greens.

The numerous testimonials we have received establishes the fact that our Mixture of Grasses will produce a thick, tough, beautiful green turf.

The varieties comprising this Mixture of Grasses are all the finest-bladed, low-growing and most hardy kinds, and will maintain their rich, velvety green color throughout the season. For a new green 100 feet square, use about 4 bushels (64 lbs.). Half this quantity for renovating.

$\frac{1}{2}$  lb., 35c; 1 lb., 60c; 5 lbs., \$2.50;  $\frac{1}{2}$  bu. (8 lbs.), \$3.50; 1 bu. (16 lbs.), \$6.50.

### GOLF LINKS MIXTURE

We have given much attention to grasses for golf links. The mixture of grasses we offer below is composed of such varieties as will thrive here, and are the result of experiments conducted on our grounds, as well as careful observation for several years of the practical results obtained on those golf links, for which we have supplied the seed. We shall be glad to prescribe for whatever the requirements of the links may be: for poor lands or rich; high and dry, or low and wet.

Sow 4 bushels (64 lbs.), to the acre for Fairways and general purposes. Half this quantity for renovating.

Per lb., 40c; 5 lbs., \$1.85;  $\frac{1}{2}$  bu. (8 lbs.), \$2.75; 1 bu. (16 lbs.), \$5.00.

Pulverized Sheep Manure and Pure Bone Meal are the Best Fertilizers for Lawns. See Fertilizers.



**KENTUCKY BLUE GRASS**

Also known as June Grass, Green Grass, etc. This is rated as the finest permanent pasture grass. Especially suited to meadows and rich lands. A perfect lawn grass. Sow 30 to 40 lbs. per acre for lawns. 2 bushels (28 lbs.) to the acre for pastures (14 lbs. per bushel.) 1 lb. 50c; 5 lbs., \$2.25; ½ bu. (7 lbs.) \$2.75; per bu. of 14 lbs., \$5.25.

**ORCHARD GRASS**  
(*Dactylis Glomerata*)

Rough Cocksfoot. Perennial. Height, 3 feet. It blossoms about the same time as Red Clover, making it a desirable mixture with that plant. It is exceedingly palatable to stock of all kinds, one of the very best pasture grasses. Sow 25 to 35 lbs. to the acre. (14 lbs. per bushel.)

**RED TOP GRASS**  
(*Agrostis Palustris* or *Alba*)

Herd's Grass, Quick Grass. Perennial. Height 1 to 2 feet. Valuable either for lawn mixtures, mixing in hay, or permanent pasture grasses; succeeds almost everywhere.

**FANCY RED TOP PURE SEED.** Weight, about 30 lbs. per bushel. Sow 10 to 12 lbs. per acre.

**CHOICE RED TOP SEED IN CHAFF.** Sow, if alone, 40 to 50 lbs. per acre. (14 lbs. per bushel.)

**PERENNIAL OR ENGLISH RYE GRASS**  
(*Lolium Perenne*)

Imported English Blue Grass. Height, 15 to 24 inches. Considered invaluable for permanent pastures. Valuable for shady places. Sow, if alone, 50 to 60 lbs. per acre. (24 lbs. per bushel.)

**PACEY'S IMPROVED SHORT RYE GRASS**

Similar to Perennial Rye Grass, but seed is heavier and smaller, consequently is superior for lawn purposes. (24 lbs. per bushel.) Sow, if alone, 50 to 60 lbs. per acre.

**MEADOW FESCUE** (*Festuca Pratensis*)

Erroneously called English Blue Grass. Highly valuable for permanent grass land. Does not, however, attain its full productive power till the second or third year. Sow 30 to 40 lbs. to the acre. (24 lbs. per bushel.) This is the true Evergreen Grass of the South.

**AWNLESS BROME GRASS** (*Bromus Inermis*)

A hardy perennial, standing extremes of heat, cold and drought. It will grow well on all kinds of soil. (10 lbs. per bushel.) Sow 25 to 30 lbs. to the acre.

**BERMUDA GRASS** (*Cynodon Dactylon*)

A valuable grass for the south and for tropical climates; will not endure frost. Sow 10 to 15 lbs. per acre.

**CANADIAN BLUE GRASS** (*Poa Compressa*)

Also called Flat-Stemmed Poa, Flat-Stalked Meadow Grass. Grows a foot or more high. Recommended for horses, cows and sheep. Thrives well on clay. Sow 30 to 40 lbs. per acre.

**CREEPING BENT** (*Agrostis Canina*)

Produced sparingly in mixture with other grasses. Extremely valuable for Putting Greens, but not obtainable in a pure state. (12 lbs. per bushel.) Sow 30 to 40 lbs. per acre.

# McCULLOUGH'S GRASS SEEDS

We Specialize in Grass Seeds of All Kinds and for Every Purpose. For many years Grass Seeds have been one of our most important specialties and our improved and perfected facilities for handling same (at a minimum cost), either in small or car lots, enables us to offer our customers the best possible service, both as to quality and promptness in executing orders.

The number of pounds to the bushel, in brackets, is the old way of offering grasses, and is mentioned merely for reference.

We constantly carry in stock the following varieties of Grass and Clover Seeds, on which we are prepared to quote prices from one pound to carlots or over.

**KENTUCKY BLUE GRASS**

(*Poa Pratensis*)



**ORCHARD GRASS**

**CRESTED DOGSTAIL**

(*Cynosurus Crystatus*)

An excellent grass for hard, dry soils; valuable for pastures and lawns, as it is very hardy. (21 lbs. per bushel.) Sow, if alone, 30 to 35 lbs. per acre. Perennial. Height, 1 to 1½ feet.

**FINE-LEAVED SHEEP FESCUE**

(*Festuca Ovina Tenifolia*)

Similar to the Sheep Fescue, except that the leaves are much finer. Sow, if alone, 40 lbs. per acre. (14 lbs. per bushel.) Perennial. Height varies from 8 to 24 inches.

**HARD FESCUE** (*Festuca Duriuscula*)

Perennial. Height, 12 to 24 inches. Thrives well in dry situations. Sow, if alone, 30 to 35 lbs. per acre. (12 lbs. per bu.)

**ITALIAN RYE GRASS** (*Lolium Italicum*)

Biennial. Height, 18 to 30 inches. As it is not perennial, it is not adapted for permanent pastures, but for one or two years hay it is unsurpassed. Sow, if alone, 45 to 50 lbs. per acre. (18 lbs. per bushel.)

**RED OR CHEWINGS FESCUE**

(*Festuca Rubra*)

A creeping-rooted species, forming a close and lasting turf and especially adapted for dry sandy soils. It resists extreme drought and thrives on poor soils; also valuable for shady places in lawns as well as for golf courses and particularly on Putting Greens. 40 lbs. to the acre. (24 lbs. per bushel.)

**RHODE ISLAND BENT** (*Agrostis Tenuis*)

A fine grass, chiefly used for pastures, lawns and Putting Greens, for which it is one of the best. (12 lbs. per bushel.) Sow 25 to 40 lbs. per acre.

**SWEET VERNAL GRASS**

For a mixture with pasture Grasses it is valuable on account of its vernal growth. Its chief merit is its fragrant odor which the leaves emit when partially dry, thus sweetening hay. Sow 3 to 5 lbs. per acre with other grasses.

**TRUE PERENNIAL.** (*Anthoxanthum Odoratum*.)

**ANNUAL.** (*Anthoxanthum Odoratum Puelli*.) Much smaller than the perennial.

**SHEEP FESCUE** (*Festuca Ovina*)

Perennial. Height varies from 6 to 20 inches. Grows naturally on light, dry, sandy soils. Sheep are very fond of it. (14 lbs. per bushel. Sow 30 to 35 lbs. per acre.

**VARIOUS LEAVED FESCUE**

(*Festuca Heterophylla*)

A very early hardy perennial, 2 to 3 feet high, thriving best in cold, moist soils. It grows very well in the shade. Sow 40 lbs. to the acre.

SEND FOR OUR SPECIAL PRICE LIST OF GRASS AND CLOVER SEEDS

## GRASS SEEDS—Continued

### TALL MEADOW OAT GRASS

(*Avena Elatior*)

A perennial. Has broad, flat leaves, and grows about 3 feet high. Sow 25 to 30 lbs. per acre.

### TIMOTHY (*Phleum Pratense*)

Herd's Grass. Cat's-tail Grass. This grass stands at the head for meadows. Never use less than a peck to the acre, then up to one-half bushel, as to circumstances.

### WOOD MEADOW GRASS (*Poa Nemoralis*)

No grass is better adapted for pleasure grounds, particularly under trees, as it will not only grow in such places, but forms a fine sward where few other grasses can exist. Sow 20 to 25 lbs. to the acre.

SEND FOR OUR SPECIAL PRICE LIST OF GRASS AND CLOVER SEEDS.

## McCULLOUGH'S HIGH GRADE CLOVER SEEDS

### ALFALFA OR LUCERNE (*Medicago Sativa*)

Alfalfa is one of the most profitable crops the dairyman or stock farmer can raise, due to the high yield of palatable hay which contains a large percentage of protein. Alfalfa is best adapted to steep limestone hillsides and gravelly river bottoms, where the water can get away from the roots. Sow in spring or fall at rate of 15 to 20 lbs. per acre. We offer American grown seed raised in the Northwest and West on non-irrigated land. It is free as possible from noxious weeds. (60 lbs. per bushel.)

### MONTANA ALFALFA

A hardy variety from the non-irrigated or dry lands of eastern Montana, where the climate is severe. Under ordinary conditions the seed will serve all purposes where hardiness is required and we advise giving the 'Montana' a trial wherever it has been difficult to grow other varieties. Sow in spring or fall at the rate of 15 to 20 lbs. per acre. We have secured a supply of strictly high quality seed.

### GRIMM ALFALFA

This variety of Alfalfa is being raised all over the United States. It seems to be much harder than common Alfalfa, which is due to the division of its root system, enabling it to withstand freezing and thawing weather, droughts and other hardships which the common alfalfa will not endure.

We have this season secured a supply of Genuine Seed of this variety, grown by specialists in northern Idaho, where the soil and climatic conditions are most favorable for its development, consequently there can be no comparison between the quality of the seed offered by us and that offered from other sources of supply. When comparing prices kindly bear this fact in mind. Sow in the spring or fall of year at the rate of 15 to 20 lbs. per acre.

### ALSIKE OR SWEDISH CLOVER

(*Trifolium Hybridum*)

This variety is perennial and on account of its fibrous root system does not winter-kill. Will grow well on poor soil and do better on moist land than any other variety of Clover, and is highly esteemed as pasturage for bees. Sow 6 to 8 lbs. per acre.

### JAPAN CLOVER (*Lespedeza Striata*)

This Clover is especially adapted for the South, because it occupies the same position in pasture mixtures for the South that White Clover does in the North. Will thrive on poor land, and, as it grows thickly, soon furnishes abundant pasturage. This Clover is a half-hardy annual, without any objectionable root system. Sow 15 to 20 lbs. per acre. (25 lbs. per bushel.) Market price.

SEND FOR OUR SPECIAL PRICE LIST OF GRASS AND CLOVER SEEDS.

## Inoculate Alfalfa and Other Clovers and Vetches with Bacteria

NITRAGIN is an old, reliable inoculator. The contents are always fresh, living bacteria to feed your plants. Easy to use. Sent by mail or express, prepaid.

¾ bushel size (15 lbs. of Seed).....	\$0.40
¾ bushel size (30 lbs. of Seed).....	0.60
1 bushel size (60 lbs. of Seed).....	1.00
5 bushel size (300 lbs. of Seed).....	4.75

State What Crop You Want the Nitragin For

### M'CULLOUGH'S MIXED GRASSES

FOR MEADOWS AND PASTURES

There are always certain grasses that are especially adapted to certain kinds of soils, and these are so carefully combined in our mixtures that in our Mixture for Permanent Pastures grasses will be found that mature at intervals during the season, thereby insuring continuous pasturage, while our Mixture for Permanent Meadows will furnish excellent hay as well as late pasturage.

### FIRST QUALITY MIXTURES

For meadows, for permanent pasture, for pasture and hay in orchard and other shady places, for marshy grounds, for sandy and rocky grounds. Sow 1½ to 2 bushels per acre.

### CRIMSON OR SCARLET CLOVER

(*Trifolium Incarnatum*)

CRIMSON SCARLET or CARNATION CLOVER. This Clover grows about two feet high, makes good hay and is excellent for feeding green, the yield being immense. Should be sown in August to October, also early spring. 12 to 15 lbs. per acre.

### RED CLOVER—MEDIUM

(*Trifolium Pratense*)

Sow 10 to 12 pounds to the acre, according to quality of seed used and condition of the soil. In ordering, always state quality desired, otherwise will send the best.

### WHITE OR DUTCH CLOVER

(*Trifolium Repens*)

This variety thrives on nearly all soils; is a low close-growing Clover, and on account of its earliness and hardiness should be used in mixtures for permanent pastures and lawns.

### BOKHARA OR SWEET CLOVER

WHITE FLOWERED. (*Melilotus Alba*.) It will make an excellent growth on any lime lands and stiff clays, or any soils so hard and barren that they will sustain no other vegetation.

The roots are very long, penetrating the soil to a depth of three to four feet, are large, and being fleshy, decay more rapidly than alfalfa roots, hence their nitrogen becomes more quickly available for other crops.

WHITE FLOWERED; HULLED SEED, SCARIFIED. Market price.

YELLOW FLOWERED. (*Melilotus Officialis*.) Biennial. It resembles the White Sweet Clover, but blooms about three weeks earlier, produces finer stalks and does not grow as tall. It makes first-class hay and excellent pasture. It will grow on any kind of soil, and, being deep rooted, remains green in the driest season.

YELLOW FLOWERED; HULLED SEED, SCARIFIED. Market price.

UNHULLED SEED of both varieties is very slow to germinate. Unhulled Seed (30 lbs. per bushel). Hulled Seed (60 lbs. per bushel).

### SOWING RAPE

In a few weeks from the time of sowing, sheep, hogs or cattle can be turned on it. When on the Rape they should at all times have access to salt. When sown broadcast, use five to six pounds, and if in drills, two to three pounds to the acre.

### VETCHES OR TARES

SAND, HAIRY OR WINTER VETCH. (*Vicia Villosa*.) This is far superior to Crimson Clover, as it never winter-kills. Sow from August 1st to October 1st, broadcast, 1 to 1½ bushels per acre, to which we suggest adding half a bushel of winter rye or wheat.

EDWARDS' LEGUME BACTERIA cultures are made in three sizes:

To inoculate 30 lbs. of Seed.....	\$0.60
To inoculate 60 lbs. of Seed.....	1.00
To inoculate 300 lbs. of Seed.....	4.50

Directions for use on each package.

In ordering, be sure to name crop to be inoculated.

# HARDY HERBACEOUS PERENNIAL PLANTS

The steadily increasing demand for hardy plants has induced us to make arrangements whereby all the plants we offer are tested to determine their relative merits. Consequently, the amateur or professional gardener may rest assured that all the varieties offered will produce the desired effects, when judgment in arranging and care in planting are observed.

For such of our customers who are not acquainted with the different varieties, we shall be pleased to make suitable selections of the most desirable species, that once planted, with very little care, will keep the garden gay with flowers from the time frost leaves the ground until late in autumn.

All plants are forwarded on receipt of order (weather permitting), unless instructed to the contrary, and are sent by Express, purchaser paying charges. We can forward plants by Parcel Post, and if wanted sent in this way add 5c each, or 30c per dozen. Six plants of a kind at dozen rate.

## ACHILLEA (Milfoil or Yarrow)

Plants suitable for dry, sunny places. The dwarf kinds are useful for carpeting or for rockeries, the taller varieties as border plants.

**Boule De Neige.** (Ball of Snow.) An improved variety bearing pure white flowers of perfect form all summer. Fine for cut flowers. 35c each; 3 for 60c; \$2.00 per dozen.

## ACONITUM (Monkshood)

Summer and late autumn-flowering plants with bold spikes of hood-shaped flowers thriving in either sun or shade. The roots are poisonous and should not be planted where the tubers might be mistaken for vegetables.

**Fischeri.** A dwarf variety with pale blue flowers. 18 inches. September. 50c each; 3 for \$1.05; \$3.50 per dozen.

## AGROSTEMMA (Rose Campion)

Erect growing plants with silvery foliage and showy flowers during June and July.

**Coronaria.** (Mullein Pink.) Bright rosy-crimson flowers; 2½ to 3 feet. 35c each; 3 for 60c; \$2.00 per dozen.

## AJUGA (Bugle)

A useful plant for the rockery and for carpeting the ground, particularly in shady positions, as under trees where grass will not grow.

**Reptans Rubra.** Grows 3 to 4 inches high, with large spikes of purplish-blue flowers in May. 40c each; 3 for 75c; \$2.50 per dozen.

## ALYSSUM (Rock Madwort)

Very popular for beds, borders and winter flowering. Of easiest culture and very free blooming.

**Saxatile Compactum.** (Basket of Gold, Gold Tuft, Rock Madwort.) A fine plant for the rockery or border, grows 1 foot high and produces broad flat heads of yellow flowers in May. 40c each; 3 for 75c; \$2.50 per dozen.

## ANCHUSA ITALICA

**Dropmore Variety.** Remarkable for its free and continual flowering all summer and the beautiful gentian-blue of its flowers; grows about five feet high. 45c each; 3 for 90c; \$3.00 per dozen.

## ANTHEMIS (Marguerite)

**Tinctoria.** Handsome, finely cut foliage, and large, golden yellow flowers produced all summer. Succeeds in the poorest soil. 35c each; 3 for 60c; \$2.00 per dozen.

## AQUILEGIA (Columbine)

Charming hardy plants, with distinct clear-cut foliage, bearing in countless numbers through May and June exquisite clear blue, white, rose, yellow, purple and striped blossoms. They thrive well with ordinary garden culture, but do best in partially shaded nooks.

**Chrysantha.** (Golden Columbine.) Golden yellow flowers with long spurs. 40c each; 3 for 75c; \$2.50 per dozen.

**Coerulea.** Flowers often three inches in diameter; the outer sepals deep lilac or blue, petals white, the deep blue spur tipped green. 40c each; 3 for 75c; \$2.50 per dozen.

**Long Spurred Hybrids.** Beautiful variations from the standard type. 40c each; 3 for 75c; \$2.50 per dozen.

**Wayside Pink.** A beautiful strain of nothing but clear pink colors. We do not think that they can be surpassed. 45c each; 3 for 90c; \$3.00 per dozen.

**Canadensis.** (American Columbine.) A bright red and yellow variety, very attractive. 40c each; 3 for 75c; \$2.50 per dozen.

## ARABIS (Rock Cress)

**Alpina.** A desirable early spring flowering plant, adapted for edging and the rock garden, but does equally well in the border, forming a dense carpet, completely covered with pure white flowers, which last a long time in bloom. 45c each; 3 for 90c; \$3.00 per dozen.



ANTHEMIS

## ARMERIA (Sea Pink or Thrift)

Attractive dwarf plants forming evergreen tufts of bright green foliage, from which innumerable flowers appear in dense heads, on stiff wiry stems, from 9 to 12 inches high. They flower more or less continuously from early spring until late in the fall. Very useful in the rockery.

**Lauchena Rosea.** Bright rose. 3 to 6 inches. 45c each; 3 for 90c; \$3.00 per dozen.

## ARTEMISIA

**Lactiflora.** A tall-growing plant of fine foliage and heads of small white flowers in August and September, which fill the garden with fragrance. 35c each; 3 for 60c; \$2.00 per dozen.

## ASCLEPIAS (Butterfly Weed)

Showy native plants about 2½ feet high, blooming during July and August.

**Tuberosa.** Brilliant orange-colored flowers. 40c each; 3 for 75c; \$2.50 per dozen.

## ASTERS (Michaelmas Daisies or Starworts)

The hardy sorts are entirely distinct from Annual Asters, being smaller in bloom, but produced in greater quantity.

**Feltham Blue.** A pretty aniline blue; very free bloomer. 40c each; 3 for 75c; \$2.50 per dozen.

**Novae-Angliae Roseum Superbum.** Color almost red and a profuse bloomer. 45c each; 3 for 90c; \$3.00 per dozen.

**Novi-Belgii Climax.** The plant is of strong, vigorous habit, over 5 feet high, with pyramidal shaped flower stems filled with light lavender-blue flowers, each 1¼ inches or more in diameter. August to October. 50c each; 3 for \$1.05; \$3.50 per dozen.

**Doris.** Pure white, rather dwarf. 45c each; 3 for 90c; \$3.00 per dozen.

**Mauve Cushion.** The flowers of delicate mauve, with silvery white reflection, are borne on plants rarely exceeding 9 inches in height. The blooms are at their best in November. 50c each; 3 for \$1.05; \$3.50 per dozen.

**Alpinus, Dwarf Alpine Aster.** Indispensable for the rockery or edge of hardy borders; grows 6 to 10 inches high and bears large bluish-purple flowers in May and June. 45c each; 3 for 90c; \$3.00 per dozen.

## BAPTISIA (False Indigo)

**Australis.** Grows about 2 feet high with dark green, deeply-cut foliage and spikes of dark blue flowers in June. 40c each; 3 for 75c; \$2.50 per dozen.

## BOCCONIA (Plume Poppy)

**Cordata.** A splendid plant, growing sometimes six feet high, bearing panicles of creamy-white flowers in July and August; makes a grand effect as a center in a hardy bed or a border background. 40c each; 3 for 75c; \$2.50 per dozen.



## HARDY HERBACEOUS PLANTS—Continued

### **BOLTONIA** (False Chamomile)

Tall growing, showy plants, with flowers resembling hardy Asters, appearing in September.  
**Latisquama.** Pink, tinted lavender; six feet. 40c each; 3 for 75c; \$2.50 per dozen.

### **CALLIRHOE** (Poppy Mallow)

**Involucrata.** A showy trailing plant with finely divided foliage and rosy-crimson flowers, with white center; blooms all summer. 45c each; 3 for 90c; \$3.00 per dozen.

### **CAMPANULA** (Bell Flower)

#### **CUP AND SAUCER CANTERBURY BELLS** (Campanula Calycanthema)

Large semi-double flowers, each resembling a cup and saucer.

**Pink.** Beautiful variety with charming pink flowers. 35c each; 3 for 60c; \$2.00 per dozen.

**White.** Similar to the preceding, but the flowers are white. 35c each; 3 for 60c; \$2.00 per dozen.

**Blue.** Beautiful light blue flowers. 35c each; 3 for 60c; \$2.00 per dozen.

### **CERASTIUM** (Snow in Summer)

**Tomentosum.** Suitable for the rockery or for covering dry, sunny spots. Low growing plant with silvery foliage and white flowers in June. 40c each; 3 for 75c; \$2.50 per dozen.

### **COREOPSIS**

**Lanceolata Grandiflora.** Plant grows eighteen inches high, and produces its bright golden yellow flowers in great profusion the entire season. 35c each; 3 for 60c; \$2.00 per dozen.

**Rosea.** Small pink flowers, blooming in August and September. Foliage dark green, finely divided. Useful in border and rockery; 1 foot. 40c each; 3 for 75c; \$2.50 per dozen.

### **DELPHINIUMS** (Perennial Larkspur)

These are deservedly popular. They are perfectly hardy and will establish themselves in almost any garden soil, but respond quickly to liberal treatment. Will begin blooming about the middle of June. If stalks are cut off as soon as flowers fade, they will continue blooming all summer.

**Belladonna Hybrids.** The freest and most continuous bloomer of all. The clear turquoise-blue flowers are not surpassed by any; 3 feet. 40c each; 3 for 75c; \$2.50 per dozen.

**Bellamosa.** A dark blue of the type of Belladonna with the color of the old Formosum variety, but not liable to mildew like the latter and of stronger growth. 40c each; 3 for 75c; \$2.50 per dozen.

**Giant Hybrids.** Unquestionably the finest strain of mixed hybrids ever offered. The plants are of strong, vigorous habit, with large flowers on spikes two feet and over. 45c each; 3 for 90c; \$3.00 per dozen.

**Chinensis.** A pretty dwarf species, with fine feathery foliage and intense gentian-blue flowers in open panicles. 40c each; 3 for 75c; \$2.50 per dozen.

**Chinensis Alba.** A pure white form of the above. 40c each; 3 for 75c; \$2.50 per dozen.

### **EUPATORIUM**

**Ageratoides.** (Thorough Wort.) A border plant of strong, free growth. 3 to 3½ feet high, with small white flowers in dense heads; splendid for cutting. August and September. 40c each; 3 for 75c; \$2.50 per dozen.

**Coelestinum.** Light blue flowers, similar to the Ageratum, blooms from August until frost. 40c each; 3 for 75c; \$2.50 per dozen.

### **FUNKIA** (Plantain Lily)

Their broad, massive foliage makes them attractive subjects for the border, even when not in flower. They succeed equally well in sun or shade.

**Subcordata Grandiflora Alba.** (White Day Lily, August Lily.) Pure white, lily-shaped, fragrant flowers. 45c each; 3 for 90c; \$3.00 per dozen.

### **GAILLARDIA** (Blanket Flower)

**Grandiflora.** Beginning to flower in June, they continue one mass of bloom the entire summer. Flowers three inches in diameter; center dark reddish-brown; petals orange to crimson. 40c each; 3 for 75c; \$2.50 per dozen.

### **GYPSOPHILIA** (Baby's Breath)

During August and September the plant is a mass of delicate feathery blooms. These may be used as fresh cut flowers, also for a semi-everlasting effect.

**Paniculata.** Loose, feathery sprays of white flowers, making a mist-like effect. 40c each; 2 for 75c; \$2.50 per dozen.

**Paniculata Flore Pleno.** Plants offered are raised from seed which comes about 25 per cent true. We offer it as such. 40c each; 3 for 75c; \$2.50 per dozen.

### **HELENIUM** (Sneezewort)

Handsome plants, allied to the sunflowers. Of the easiest culture, forming dense masses of blooms in late autumn.

**Autumnale Superbum.** Broad heads of deep golden-yellow flowers in late summer. Grows 5 to 6 feet high. 45c each; 3 for 90c; \$3.00 per dozen.

**Autumnale Rubrum.** A splendid new variety; deep ox-blood-red, changing to terra-cotta. 5 to 6 feet. September. 45c each; 3 for 90c; \$3.00 per dozen.

### **HELIOPSIS** (Orange Sunflower)

**Pitcheriana.** Very similar to a small sunflower, but blooming earlier; deep golden yellow; all summer, June till frost; 3 feet high. 40c each; 3 for 75c; \$2.50 per dozen.

### **HEMEROCALLIS** (Yellow Day Lily)

Lily-like plants, which flower in greatest profusion during the summer.

**Flava.** The best known variety, very fragrant, deep lemon-yellow flowers in June and July. 40c each; 3 for 75c; \$2.50 per dozen.

**Dr. Regel.** Handsome, rich orange-yellow flowers in May. Very fragrant. Fine for cutting. 1½ feet 40c each; 3 for 75c; \$2.50 per dozen.

### **HIBISCUS** (Mallow)

These are a mass of bloom during the entire summer, when they produce large flowers in gorgeous colors.

**Mallow Marvels, Giant-flowering.** They grow from 5 to 8 feet high, and are very floriferous, blooming from early in July until late in autumn. We offer three distinct colors—red, pink and white—strong roots. 35c each; 3 for 90c; \$3.00 per dozen.

### **HOLLYHOCK**

For planting in rows or in groups on the lawn, or for interspersing among shrubbery, they are invaluable. They require rich, deep soil, well drained.

**Newport Pink.** Finest pure pink, double flowering variety. 40c each; 3 for 75c; \$2.50 per dozen.

**Double White, Double Rose, Double Yellow, Double Red, Double Mixed.** 40c each; 3 for 75c; \$2.50 per dozen.

**Single Mixed.** A wide range of colors. 35c each; 3 for 60c; \$2.00 per dozen.



**COREOPSIS**

## HARDY HERBACEOUS PLANTS—Continued

### IBERIS (Hardy Candytuft)

**Sempervirens.** Low growing, with evergreen foliage. In spring and early summer, is completely covered with dense heads of pure white flowers. 45c each; 3 for 90c; \$3.00 per dozen.

### LIBERTY IRIS (Iris Germanica)

(Flag Iris) The "Fleur-de-Lis" of France

The Liberty Iris is one of the most desirable May flowering plants. The flowers are of large size and exquisite colors. For the best results plant in a well-drained sunny position, barely covering the roots. Avoid fresh manure in preparing your border.

**Alcazar.** This variety produces flowers of great substance, with unique coloring of great richness. Standards light bluish-violet with bronze reflections; falls deep purple with bronze-veined throat; style arms deep amber with middle band of bluish-violet. Tall and vigorous grower. 40c each; \$4.00 per dozen.

**Eldorado.** Coloring unique and distinct resulting from a mingling of yellowish-bronze and violet. Standards yellowish-bronze shaded with violet; falls violet touched with yellowish-bronze, haft strongly striped with bronze; style arms golden-yellow and violet, beard bright yellow. 32 inches. 25c each; \$2.50 per dozen; \$15.00 per 100.

**Celeste.** Delicately beautiful flowers, self-colored pale sky-blue. Very free bloomer. 25c each; \$2.50 per dozen; \$15.00 per 100.

**Gypsy Queen.** Standards old gold, shaded smoked pearl; falls black maroon, reticulated light yellow; late bloomer. Height, 24 inches. 25c each; \$2.50 per dozen; \$15.00 per 100.

**Her Majesty.** This variety is one of the prettiest of the deep pink sorts; of robust growth and free-flowering. Height, 30 inches. 25c each; \$2.50 per dozen; \$15.00 per 100.

**Honorabilis.** A semi-dwarf variety; standards golden yellow; falls rich mahogany brown. Height, 18 inches. 25c each; \$2.50 per dozen; \$15.00 per 100.

**Jacquesiana.** Standards fawn, brightened at base with gold; falls velvety reddish violet, almost black, of wonderful substance and depth of color; style arms gold and fawn. Height, 30 inches. 25c each; \$2.50 per dozen; \$15.00 per 100.

**Jeanne D'Arc.** Standards very large, ruffled, spreading after the manner of the Japanese, white, with a border delicately pencilled bright lilac; falls pure white, bordered lilac at base; style arms tipped and mid-ribbed deep bright lilac. Height 31 inches. 30c each; \$3.00 per dozen; \$18.00 per 100.

**Massasoit.** Standards are a distinct shade of metallic Venetian blue; falls deeper blue; velvety and rich. All divisions broad and full. 35c each; \$3.50 per dozen; \$25.00 per 100.

**Othello.** A handsome variety. Standards rich blue; falls deep, dark, velvety purple; style arms purple-blue. All divisions long and narrow. Height, 30 inches. 25c each; \$2.50 per dozen; \$15.00 per 100.

**Pallida Dalmatica.** This is one of the finest Irises grown, having enormous sweet-scented flowers. Standards lavender; falls lavender, shaded blue. Unequaled for massing and fine for cutting. Height, 40 to 48 inches. 25c each; \$2.50 per dozen; \$15.00 per 100.

**Queen of May.** The coloring of this semi-early variety is unique, as both falls and standards are self-colored beautiful bright rose, slightly lilacish, of robust growth and free flowering. Height 32 inches. 25c each; \$2.50 per dozen; \$15.00 per 100.

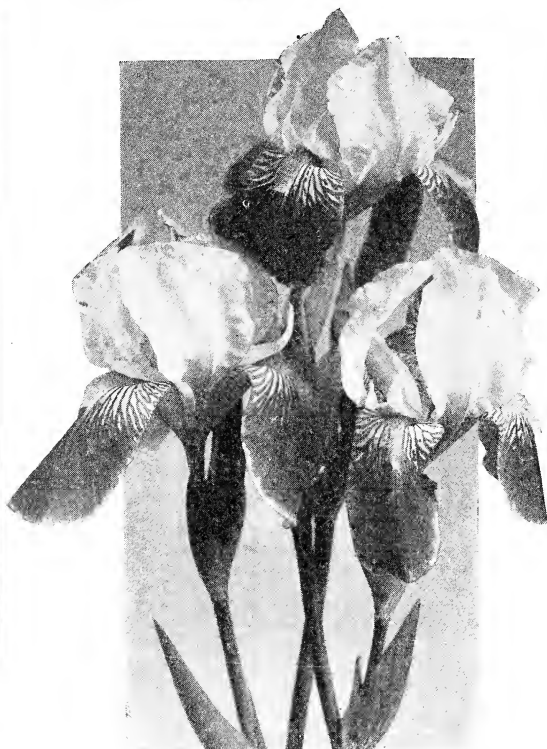
**Sherwin Wright.** This new variety has splendid golden-yellow flowers without shadings or markings. Strong, vigorous plants about two feet high. Flowers of good texture and lavishly produced. 40c each; \$4.00 per dozen.

We offer one each of the thirteen fine varieties for \$3.25 postpaid.

### LIATRIS (Blazing Star, or Gay Feather)

Showy native plants, producing their large spikes of flowers from July to September.

**Pycnostacha.** Spikes of light, rosy purple flowers; five feet. 45c each; 3 for 90c; \$3.00 per dozen; by mail, 50c each.



LIBERTY IRIS

### JAPANESE IRIS (Iris Kaempferi)

They are most effective when planted in groups and thrive best in a moist soil. The flowers are of immense size, from six to eight inches in diameter, and of the most beautiful and delicate shades. They are perfectly hardy, flowering in great profusion during June and July.

**Sunrise, No. 3.** White petals heavily veined dark purple, yellow throat, guard petals violet, edged white, petaloides dark blue, feather white.

**Amour, No. 4.** Petals light lavender veined black purple, yellow throat, guard petals almost black, edged white, petaloides black purple with double feathered edges.

**Golden Sun, No. 5.** Dark crimson mauve with yellow veins, guard petals light plum, petaloides light lavender.

**Bandai, No. 9.** Deep blue petals with a white halo, veined white.

**Sunset, No. 12.** Petals royal purple with bright yellow center and yellow veins.

**Nippon, No. 17.** Petals deep lavender-blue with yellow blotches, petaloides violet.

**Hawaii, No. 21.** Yellow petals with dark blue halo, shaded velvety purple.

**Angelus, No. 26.** Petals pure white, veined pale blue, petaloides lavender.

**Etna, No. 27.** Petals dark blue, veined white.

**Africa, No. 34.** Petals dark claret overlaid with blue, yellow veins.

**Superba, No. 76.** Dark garnet petals, veined white.

**Shinto, No. 89.** Petals bright crimson-purple with yellow throat.

Prices of the above named varieties, 50c each; \$5.00 per dozen. If wanted by mail, add 5c each, 30c per dozen for postage.

**Finest Mixed (Our Selection).** Our mixed varieties embrace a wide range of colors and markings. 35c each; \$3.50 per dozen.

If wanted by mail, add 5c each; 30c per dozen for postage.

### LINUM (Flax)

**Perenne.** A fine plant for the border or rockery; grows 2 feet high, with light, graceful foliage and large blue flowers all summer. 40c each; 3 for 75c; \$2.50 per dozen; by mail, 45c each.



## HARDY HERBACEOUS PLANTS—Continued

### LUPINUS (Lupine)

They grow about three feet high, producing large spikes of flowers, latter part of May and early June.

**Polyphyllus.** Clear blue. 50c each; 3 for \$1.05; \$3.50 per dozen; by mail, 55c each.

**Albus.** A white variety of above. 50c each; 3 for \$1.05; \$3.50 per dozen; by mail, 55c each.

### LYCHNIS

**Chalcedonica.** A desirable plant, growing two to three feet high; flowers brilliant orange scarlet. 35c each; 3 for 60c; \$2.00 per dozen; by mail, 40c each.

### LYTHRUM

**Roseum Superbum.** (Rose Loose Strife.) A strong growing plant three to four feet high, producing large spikes of rose colored flowers from July to September. 40c each; 3 for 75c; \$2.50 per dozen; by mail, 45c each.

### MERTENSIA (Blue Bells)

**Virginica.** An early spring-flowering plant, growing about one to one and one-half feet high, with drooping panicles of handsome, light blue flowers, fading to clear pink; blooming in May and June. 40c each; 3 for 75c; \$2.50 per dozen; by mail, 45c each.

### MONARDA (Bergamot)

Showy plants, growing from two to three feet high, succeeding in any soil or position, with aromatic foliage, and producing their bright flowers during July and August.

**Didyma.** Cambridge Scarlet. (Oswego Tea.) Flowers bright scarlet. 40c each; 3 for 75c; \$2.50 per dozen; by mail, 45c each.

### MYOSOTIS

**Alpestris.** (Alpine Forget-Me-Not.) Splendid for naturalizing on edge of ponds and streams; also for beds, borders and rockeries. 45c each; 3 for 90c; \$3.00 per dozen; by mail, 50c each.

### OENOTHERA (Evening Primrose)

Elegant subjects for growing in an exposed, sunny position, either in the border, or on the rockery, blooming all summer.

**Missouriensis.** Large; golden yellow flowers. 40c each; 3 for 75c; \$2.50 per dozen; by mail, 45c each.

### PENTSTEMON (Beard Tongue)

**Barbatus Torreyi.** Spikes of brilliant scarlet flowers from June to August. Grows 3 to 4 feet high. 40c each; 3 for 75c; \$2.50 per dozen.

### DOUBLE HERBACEOUS PEONIES

Magnificent, hardy plants, almost rivaling the rose in perfume, brilliancy, color and perfection of bloom. They are perfectly hardy, require little or no care, and produce larger and finer blooms when well established.

This season we offer a superb assortment of double flowering Peonies. These will be furnished in divisions of 3 to 5 eyes.

Peonies should be planted in the fall for best results. If planted during the months of September, October and early November, they are almost certain to bloom the following season.

**Achille.** An erect, tall growing, free blooming sort with shell-pink fragrant flowers fading to lilac-white. Blooms range from medium to large and of compact rose type. Early, mid-season. 55c each; \$5.50 per dozen.

**Adolph Rosseau.** Very large dark velvety-red flowers with garnet hues and a distinct metallic reflex; one of the darkest, and a brilliant color. Early midseason. 90c each; \$9.00 per dozen.

**Agnes Mary Kelway.** Large, fragrant flowers of crown type. Guards and crown deep violet-rose, collar cream-white. Within this collar a crown of same color as guards. Free bloomer in clusters; tall and vigorous grower; midseason. 65c each; \$6.50 per dozen.

**Albatre.** Color of flowers is pure snow-white with a few delicate pencillings of carmine on the edge of the central petals; very waxy, chaste and fragrant; midseason. 70c each; \$7.00 per dozen.

**Alice Crousse.** Flowers very large, fragrant and of double rose type. Color is light violet-rose. A strong, upright grower and free bloomer. Early. 50c each; \$5.00 per dozen.

**Asa Gray.** Very large and full flowers; color delicate lilac plentifully sprinkled with small dots of deep lilac. Striking, imposing and beautiful; midseason. 80c each; \$8.00 per dozen.



DOUBLE HERBACEOUS PEONIES

**Baroness Schroeder.** This is one of the finest Peonies in existence. A late flowering variety of rose type with fragrant white flowers suffused with blendings of gold, heliotrope or pink. 75c each; \$7.50 per dozen.

**Bertha.** A late flowering sort with bright crimson flowers, very large, full and double. Makes a striking appearance. 70c each; \$7.00 per dozen.

**Claire Dubois.** Very large, double, globular flowers; convex and tufted; petals incurved and lacinated, overlapping each other in a charming effect; color rich, clear satiny pink with glossy reflex. Late midseason. 90c each; \$9.00 per dozen.

**Duchesse De Nemours.** Of medium height, strong grower and free bloomer. The fragrant flowers have a pure white crown, with sulphur-white collar without any crimson flecks. Early. 65c each; \$6.50 per dozen.

**Edulis Superba.** This is usually called the Decoration Day Peony as it is generally in full bloom by that time. Flowers are a beautiful, bright, clear mauve-pink with silvery reflex. Strong upright grower and free bloomer. 45c each; \$4.50 per dozen.

**Felix Crousse.** Large, full, brilliant red flowers of globular form, bomb type and fragrant. Strong vigorous grower of medium height and free bloomer in clusters. Late mid-season. 75c each; \$7.50 per dozen.

**Festiva Maxima.** Flowers very large, globular and of rose type. Petals very broad. Pure white center usually flecked crimson; outer petals sometimes pale lilac-white on first opening. Early and most popular white for cut flowers. 50c each; \$5.00 per dozen.

**Fragrans.** A late blooming variety of bomb type. Compact, full flowers; color solferino-red with slight silvery reflex; strong, vigorous grower and free bloomer in clusters. 45c each; \$4.50 per dozen.

**Livingstone.** Large, compact flower of rose type. Pale lilac-rose, tipped silver, center petals flaked carmine. Both buds and flowers are large and beautiful. An upright, erect grower and late bloomer. Fine cut flower variety. 45c each; \$4.50 per dozen.

**Louis Van Houtte.** An old favorite of semi-rose type; late mid-season. Fine, shapely bloom; medium to large flower; color bright violaceous-red of dazzling effect. 45c each; \$4.50 per dozen.

**Marie Calot.** Flowers are lilac-white, fading to milk-white, golden yellow stamens or short, narrow petals around the collar. Of rose type, late blooming and fragrant. 60c each; \$6.00 per dozen.

**Rubra Superba.** A very late, large flowering variety of rose type. Flowers are deep, brilliant rose-carmine or crimson and very fragrant. Considered the best late crimson. 45c each; \$4.50 per dozen.

**Queen Victoria.** An early mid-season sort of bomb type. Considered the best every day white. In the bud state has a faint blush tint, opening white, center petals tipped with carmine. Large, full, compact blooms. 45c each; \$4.50 per dozen.

**Unnamed Varieties.** Colors, red, pink and white. 25c each; \$2.50 per dozen.

If wanted by mail, add 5c each; 30c per dozen, for postage.

## HARDY HERBACEOUS PLANTS—Continued

### HARDY PHLOX (Phlox Decussata)

Probably the most satisfactory of all perennials, and a good space, in proportion to the size of the garden, should always be given to these plants. These are justly esteemed as the finest herbaceous plants. They are of dwarf habit, perfectly hardy, of very easy culture, and yield a profusion of bright showy bloom. They are hardly equaled by any other hardy plant for the decoration of the garden.

We offer the following collection of extra choice varieties. 40c each; 3 of a kind for 75c; \$2.50 per dozen.

**Athis.** Very tall; fine salmon.

**Bridesmaid.** White with crimson eye.

**Champs Elysees.** Fine, rich crimson.

**Eclairer.** Bright carmine with light halo. Large flower.

**Europa.** White with large red center, extra size truss.

**F. G. Von Lassburg.** Splendid pure white; very large.

**La Vague.** Mauve with red eye.

**Prof. Virchow.** Bright carmine, overlaid with orange-scarlet.

**Rheinlander.** Beautiful salmon-pink, with flowers and trusses of immense size.

**R. P. Struthers.** Bright rosy carmine, with claret-red eye.

**Rynstroom.** Pretty rose-pink; like Paul Neyron rose.

**Siebold.** Vivid orange-scarlet.

Any of the above varieties. 40c each; 3 of a kind for

75c; \$2.50 per dozen.

If wanted by mail, add 5c each; 30c per dozen, for postage.

### PHLOXES OF SORTS

**Amoena.** Grows about 4 inches high, forming a carpet of foliage, which in early spring is a sheet of bright pink flowers. 40c each; 3 for 75c; \$2.50 per dozen; by mail, 45c each.

**Divaricata Canadensis.** It commences to bloom early in April and continues through May, with large, fragrant lavender flowers, on stems 10 inches high. 45c each; 3 for 90c; \$3.00 per dozen; by mail, 50c each.

**Subulata.** (Moss or Mountain Pink.) An early spring, flowering type, with pretty moss-like evergreen foliage, which, during the flowering season, is hidden under the masses of bloom.

**Alba.** Pure white. **Rosea.** Bright rose. 40c each; 3 for 75c; \$2.50 per dozen; by mail, 45c each.

**Suffruticosa.** **Miss Lingard.** This early flowering variety grows about 2 feet high and blooms from May to October. Flowers white with pale pink eye, long graceful panicles. 50c each; 3 for \$1.05; \$3.50 per dozen; by mail, 55c each.

### PHYSOSTEGIA (False Dragonhead)

**Virginica.** Forms large clumps 3 to 4 feet high, bearing long spikes of delicate pink flowers, tubular in form. July and August. 40c each; 3 for 75c; \$2.50 per dozen; by mail, 45c each.

### PLATYCODON

(Balloon Flower or Japanese Bell Flower)

**Grandiflorum.** Deep blue, cupped, star-shaped flowers, one and one-half feet. 40c each; 3 for 75c; \$2.50 per dozen; by mail, 45c each.

**Mariesi.** Deep blue, bell-shaped flowers, nearly three inches across on one-foot-high plants. 40c each; 3 for 75c; \$2.50 per dozen; by mail, 45c each.

### POPPIES, ORIENTAL

(Papaver Orientale)

For a gorgeous display of rich and brilliant coloring, nothing equals them during their period of flowering in May and June. After flowering, the plants die back, usually re-appearing along in early September, or as soon as the weather gets cool. During this resting period, care should be taken in cultivating the beds, that the roots are not disturbed.

**Apricot Queen.** Large, apricot colored flowers.

**Beauty of Livermore.** Crimson, with black blotch, fine large flowers.

**Mrs. Perry.** Orange-apricot; very fine.

Any of the above Varieties. 45c each; 3 of a kind for 90c; \$3.00 per dozen; by mail, 50c each.

**Mixed Varieties.** 40c each; 3 for 75c; \$2.50 per dozen; by mail, 45c each.

### PYRETHRUM

**Uliginosum.** (Giant Daisy.) Grows four to five feet high, and is covered with large, white, daisy-like flowers three inches in diameter from July to September. 40c each; 3 for 75c; \$2.50 per dozen; by mail, 45c each.

### RUDBECKIA (Cone Flower)

**Golden Glow.** Double canary yellow flowers; six feet; August. 35c each; 3 for 60c; \$2.00 per dozen; by mail, 40c each.

### RUDBECKIA (Cone Flower)—Continued

**Newmanni.** Single dark orange, with deep purple cone center; three feet high; flowers from July to September. 40c each; 3 for 75c; \$2.50 per dozen; by mail, 45c each.

**Purpurea.** (Giant Purple Cone Flower.) Flowers from July to September; two and one-half feet high. 45c each; 3 for 90c; \$3.00 per dozen; by mail, 50c each.

### SALVIA

**Azurea.** Grows two to three feet high and produces pretty skyblue flowers in great profusion during August and September. 40c each; 3 for 75c; \$2.50 per dozen.

### SCABIOSA

**Japanica.** Bears lavender-blue flowers on long stems from July to September. 45c each; 3 for 90c; \$3.00 per dozen.

(Stone Crop)

**Spectabilis.** Erect growing; height 18 inches with broad, light-green foliage and immense heads of handsome, showy, rose-colored flowers. 45c each; 3 for 90c; \$3.00 per dozen.

**Spectabilis Brilliant.** Similar to the above with bright, amaranth-red flowers. 45c each; 3 for 90c; \$3.00 per dozen.

### SHASTA DAISY

Large, snowy-white flowers, in bloom continuously throughout the summer and fall. Height 2½ feet.

**Alaska.** A decided improvement on the original, very free-flowering, with blooms 4½ to 5 inches across, of pure, glistening white. 40c each; 3 for 75c; \$2.50 per dozen.

**Mrs. C. Lowthian Bell.** This magnificent white Marguerite is undoubtedly the largest-flowered variety of this class. Flowers frequently measure six inches across, with very broad petals of great substance. Height 2½ to 3 feet. 45c each; 3 for 90c; \$3.00 per dozen.

### STATICE (Great Sea Lavender)

**Latifolia.** Immense heads, 2 to 3 feet across; small, blue flowers from June to September, which last for months if cut and dried. 45c each; 3 for 90c; \$3.00 per dozen.

### STOKESIA

(Cornflower or Stokes' Aster)

**Cyanea.** Produces showy, aster-like, deep blue flowers which measure from 4 to 5 inches across. 18 to 24 inches high, blooming freely from July until frost. 45c each; 3 for 90c; \$3.00 per dozen.

**Alba.** White flowers and green foliage. 45c each; 3 for 90c; \$3.00 per dozen.

### SWEET WILLIAM (Dianthus Barbatus)

Well known hardy plant. We offer a superb strain of mixed single and double-flowering sorts. 35c each; 3 for 60c; \$2.00 per dozen.

**Newport Pink.** Salmon or watermelon-pink flowers. 40c each; 3 for 75c; \$2.50 per dozen.

### VERONICA (Speedwell)

**Longifolia Subsessilis.** A pretty species with blue flowers, produced on spikes a foot long, continuing in bloom the entire summer and fall. 45c each; 3 for 90c; \$3.00 per dozen.

**Spicata.** An elegant border plant, growing about 1½ feet high, producing long spikes of bright blue flowers. 40c each; 3 for 75c; \$2.50 per dozen; by mail 45c each.

### VINCA MINOR (Periwinkle or Trailing Myrtle)

Dwarf evergreen trailing plant, is used for carpeting the ground where it is too shady for other plants to thrive. 40c each; 3 for 75c; \$2.50 per dozen; by mail, 45c each.

### YUCCA FILAMENTOSA (Adams' Needle)

A hardy ornamental foliage and evergreen plant with long, narrow leaves that are bright green the whole year round. The flowers are white, produced on long spikes. 45c each; 3 for 90c; \$3.00 per dozen.

### ORNAMENTAL GRASSES

**Eulalia Gracillima.** (Japan Rush.) The most beautiful of all the Eulalias, with narrow, graceful foliage, entirely green without variegation, except that the midrib is of a silver sheen.

**Eulalia Japonica Variegata.** Leaves striped white and green longitudinally.

**Eulalia Zebrina.** (Zebra Grass.) A peculiar variegated grass, growing six feet high. The variegation is unlike that of any other plant, being across the leaf in regular bands, dark green and light. 40c each; 3 of a kind, 75c; \$2.50 per dozen; by mail, 45c each.

# ORNAMENTAL FLOWERING SHRUBS

Shrubs are as much a part of the garden as the lawn or flower borders, and a well arranged planting presents an attractive appearance throughout the entire year.

Our Shrubs are transplanted every two or three years and are furnished with plenty of fibrous roots and should not be compared to stock that is never moved from the cutting beds until sold.

Stocks of **ORNAMENTAL FLOWERING SHRUBS** have become greatly depleted in the last few years, consequently it is no longer possible to offer two or more sizes, except in a few instances. Our prices contemplate furnishing the largest sizes now obtainable.

We do not guarantee or replace plants, shrubs or trees at prices quoted.

**ALTHEA.** (Rose of Sharon.) The Altheas are among the most valuable of our hardy shrubs on account of their late season of blooming, which is from August to October. Are also extensively used as hedge plants.

**Boule-De-Feu.** Double red. 45c each; \$4.50 per dozen.

**Jeanne D'Arc.** Double white. 45c each; \$4.50 per doz.

**Meehani.** Variegated foliage with satiny, lavender-colored, single flowers. 75c each; \$7.50 per dozen.

**Double Rose, White and Purple.** Three to four feet. 45c each; \$4.50 per dozen.

**BERBERIS THUNBERGII.** (Japanese Barberry.) One of the most beautiful shrubs either for hedging or general purposes. It is of neat, compact growth and the foliage is beautiful at all times, turning in the fall to a most brilliant crimson color. The plant is covered with bright scarlet berries all the fall and winter. It seldom grows over four feet high.

12-18 in., 40c each; \$4.00 per doz.  
18-24 in., 65c each; \$6.50 per doz.  
24-30 in., 75c each; \$7.50 per doz.

**BUDDLEYA.** (Butterfly Shrub or Summer Lilac.) *Variabilis Magnifica.* Flowers are the shape and color of lilacs. Flowers continuously all season. 60c each; \$6.00 per dozen.

**CALICARPA.** *Purpurea.* A low growing shrub rarely exceeding three feet in height. In September clusters of bright glossy, violet-purple berries are borne in from the axil of every leaf, remaining on the plant until mid-winter. 60c each; \$6.00 per dozen.

**CERCIS CANADENSIS.** (Judas Tree or Red Bud.) 60c each; \$6.00 per dozen.

**CORCHORUS.** (Kerria.) *Globe Flower* or Japanese Rose. *Japonica.* Flowers bright yellow, large and showy. 75c each; \$7.50 per dozen.

**CORNUS FLORIDA.** (White Flowering Dogwood.) Flowers white and very showy. 75c each; \$7.50 per dozen.

**CORNUS FLORIDA RUBRA.** (Red Flowering Dogwood.) The flowers are rich, rosy-red. \$3.00 each; \$30.00 per dozen.

**CRAB.** (Bechtel's Double Flowering.) Trees are covered in early spring with large, beautiful, double, fragrant flowers of a delicate pink. \$1.50 each; \$15.00 per dozen.

**DESMODIUM PENDULIFLORUM.** Bears during September sprays of rose-colored flowers. 65c each; \$6.50 per dozen.

**DEUTZIA LEMOINEI.** Habit dwarf, flowers white. 75c each; \$7.50 per dozen.

**DEUTZIA PRIDE OF ROCHESTER.** Large double white flowers, slightly tinted with rose. 60c each; \$6.00 per dozen.

**ELDER GOLDEN.** (Sambucus.) Golden yellow foliage. 75c each; \$7.50 per dozen.

**EXOCHORDA GRANDIFLORA.** (Pearl Bush.) The early buds look like pearls, opening up to long, gleaming sprays of pure white. 90c each; \$9.00 per dozen.

**FORSYTHIA SUSPENS.** (Weeping Golden Bell.) Wil-  
lowy growth and yellow flowers. 75c each; \$7.50 per dozen.

**FORSYTHIA VIRIDISSIMA.** (Golden Bell.) Erect growth and spreading branches; flowers bright yellow. 60c each; \$6.00 per dozen.

**HYDRANGEA ARBORESCENS STERILIS.** (Snowball-Hydrangea.) Snowy white blooms, flowering for fully three months. 75c each; \$7.50 per dozen.

**HYDRANGEA PANICULATA GRANDIFLORA.** The flowers, which are borne in dense pyramidal panicles in the greatest profusion, are white when they first open, but gradually change to rose and remain in good condition for weeks. 1½ to 2 feet, 75c each; \$7.50 per dozen. 2 to 3 feet, 90c each; \$9.00 per dozen.

**HYDRANGEA PANICULATA GRANDIFLORA.** Stand-  
or tree-shaped plants. 4 to 5 feet, \$2.00 each; \$20.00 per dozen.

**LILAC.** *Purple.* (Syringa Vulgaris.) Purple flowers.  
*White.* (Syringa Vulgaris Alba.) White flowers. 75c each; \$7.50 per dozen.

Price of any of the following named Lilacs, fine plants: 2 to 3 feet, \$1.00 each; \$10.00 per dozen.

**Charles X.** Reddish purple flowers.

**Madame Lemoine.** Double white flowers.

**Michael Buchner.** Double pale lilac flowers.

**LONICERA TARTARICA.** (Tartarian Honeysuckle.) Flowers red and white. 75c each; \$7.50 per dozen.

**PHILADELPHUS** or **SYRINGA.** *Grandiflorus.* (Large-flowered Mock-Orange.) Flowers are pure white and very large. 75c each; \$7.50 per dozen.

**PHILADELPHUS VIRGINAL.** Produces an immense mass of beautiful white flowers and blooms all summer. 75c each; \$7.50 per dozen.

**SPIREA.** *Anthony Waterer.* Grows three feet high and wide. Rose-red flowers in large, round clusters. 12 to 15 inches. 65c each; \$6.50 per dozen.

**Callosa Alba.** A dwarf, bushy, white flowering variety. 12 to 15 inches. 75c each; \$7.50 per dozen.

**Van Houttei.** (Improved Bridal Wreath.) Clusters of white florets are set close along the drooping stems. 2 to 3 feet, 45c; each; \$4.50 per dozen. 3 to 4 feet, \$6.00 each; \$6.00 per dozen.

**SYMPHORICARPUS.** *Vulgaris.* (Coral-Berry or Indian Currant.) Does well in shade. 60c each; \$6.00 per dozen.

**SYMPHORICARPUS.** *Racemosus.* (Snowberry.) Will grow in shady places. 60c each; \$6.00 per dozen.

**VIBURNUM.** *Opulus Sterilis.* (Snowball or Guelder Rose.) Single white flowers; brilliant red berries all winter. 90c each; \$9.00 per dozen.

**Plicatum.** (Japan Snowball.) Pure white flowers in May. \$1.00 each; \$10.00 per dozen.

**WEIGELIA.** *Eva Rathke.* The finest Weigelia in cultivation. Flowers are a rich, ruby-carminc, blooming continuously throughout the summer and autumn. \$1.25 each; \$12.50 per dozen.

**Rosea.** A beautiful shrub, with rose-colored flowers in May and June. 60c each; \$6.00 per dozen.

**Candida.** White; flowering throughout the summer. 75c each; \$7.50 per dozen.

## WEeping AND ORNAMENTAL TREES

**BIRCH.** (Cut-leaf Weeping.) Tall, slender, drooping branches and delicately cut leaves. Its bare white trunk and branches make a beautiful winter picture. 6 to 8 feet. \$5.00 each; \$50.00 per dozen.

**CATALPA BUNGEI.** (Umbrella Catalpa.) Leaves large, glossy, heart-shaped, deep green, always making a symmetrical head. One of the most unique and desirable trees for lawn, park and cemetery planting. 6 to 7 feet, \$2.50 each; selected two-year-old, \$3.00 each.

**MULBERRY, TEAS' WEEPING.** The most graceful hardy weeping tree in existence. Forms a perfect shaped head and the slender branches grow downward parallel with the stem, forming an umbrella-like shape. 2-year-heads, \$3.75 each.



Butterfly Shrub

## ROSES

### HARDY HYBRID PERPETUAL

Strong Two-Year-Old Plants. Ready for Delivery During October and November. \$1.00 each; \$10.00 per Dozen. Sent by express at customer's expense. If wanted by mail, add 5c each, 30c per dozen, for postage.

**CLIO.** Large, globular flowers of flesh color, shading rosy-pink at center.

**Frau Karl Druschki.** An exquisite flower of the purest white.

**General Jacqueminot.** The old favorite; velvety-crimson.

**John Hopper.** Brilliant crimson, large flowers, remarkable for their fragrance.

**Jubilee.** Flowers large, full and double; color glowing, velvety crimson; fragrant.

**Mme. Plantier.** Pure white, large and double, free bloomer; fine for cemetery planting.

**Magna Charta.** Deep pink, large, sweet scented and of fine form; one of the hardiest.

**Marshall P. Wilder.** A grand rose of large full flowers of a bright carmine-red.

**Mrs. John Laing.** Large, beautiful pink blooms, borne on long, sturdy stems.

**Paul Neyron.** An immense rose of a deep rose color.

**Prince C. De Rohan.** (The Black Rose.) Deep velvety-crimson passing to intense maroon.

**Ulrich Brunner.** Cherry-crimson, large fine form, strong grower and hardy.



Mrs. John Laing

### HARDY CLIMBING ROSES

We Offer the Best and Most Distinct Varieties.

Strong Two-Year-Old Plants Ready for Delivery During October and November.

Price—Extra Strong Plants, 75c each; \$7.50 per dozen. Sent by express at customer's expense. If wanted by mail, add 5c each; 30c per dozen for postage.

**American Pillar.** Color is a delightful shade of pink.

**Climbing American Beauty.** Same as its namesake in size, color and fragrance, with the addition of the climbing habit.

**Crimson Rambler.** Bright crimson flowers.

**Dorothy Perkins.** Beautiful shell-pink flowers.

**Dr. W. Van Fleet.** Rich, flesh-pink flowers.

**Gardenia.** Flowers bright yellow, opening cream.

**Pauls Scarlet Climber.** Flowers vivid scarlet, shaded crimson.

**Silver Moon.** Large, pure white flowers.

**Tausendschon.** Beautiful soft pink flowers.

## Hardy Climbing Plants

**AMPELOPSIS VEITCHII.** (Japan Creeper or Boston Ivy.) Best climbing plant for covering brick or stone walls. 50c each; \$5.00 per dozen; by mail, 55c each.

**AMPELOPSIS QUINQUEFOLIA.** (Virginia Creeper.) For covering walls, verandas and trunks of trees. 50c each; \$5.00 per dozen; by mail, 55c each.

**BIGNONIA RADICANS.** (Trumpet Vine.) Flowers trumpet-shaped, bright scarlet. 45c each; \$4.50 per dozen; by mail, 50c each.

**CLEMATIS.** *Paniculata.* (Japanese Clematis.) Pure white, very fragrant, borne in large clusters; small flowering. 60c each; \$6.00 per dozen; by mail, 65c each.

### HONEYSUCKLES

50c each; \$5.00 per dozen, by mail, 55c each.

**Aurea Reticulata.** Foliage variegated yellow and green, with yellowish white, fragrant flowers.

**Monthly Fragrant or Dutch.** Blooms all summer.

**Halleana.** Nearly evergreen; flowers pure white.

### HARDY CLIMBING PLANTS—Continued

**IVY, English.** Beautiful, evergreen vine. 75c each; \$7.50 per dozen; by mail, 80c each.

**KUDZU VINE.** (Or Jack-and-the-Bean-Stalk.) A rapid growing vine. 30c each; \$3.00 per dozen; by mail, 35c each.

**MATRIMONY VINE.** The branches may be trained over fences or trellises. 45c each; \$4.50 per dozen; by mail 50c each.

**WISTARIA, CHINESE.** Delicate, violet-blue blossoms. 60c each; \$6.00 per dozen; by mail, 65c each.

**WISTARIA, CHINESE, WHITE.** Pure white flowers. 60c each; \$6.00 per dozen; by mail, 65c each.

## TREES

### SHADE AND ORNAMENTAL

#### FOR LAWN, STREET AND FOREST PLANTING

**ASH, American White.** A handsome, hardy, broad-headed tree. 8 to 10 feet, \$2.25 each; \$22.50 per dozen.

**CATALPA SPECIOSA.** A handsome, rapid growing tree. 8 to 10 feet, \$2.25 each; \$22.50 per dozen.

**CATALPA BUNGEI.** (Umbrella Catalpa.) See page 21 for description.

**ELM, American.** A hardy, rapid grower; resists drought and is long lived. 8 to 10 feet, \$2.00 each; \$20.00 per dozen.

**Larch, European.** A pyramidal, cone-bearing tree. 6 to 8 feet, \$2.50 each; \$25.00 per dozen.

**LINDEN, American.** A rapid growing tree with large leaves. 6 to 8 feet. \$2.50 each; \$25.00 per dozen.

**LINDEN, European.** This is probably the largest leaved Linden. 6 to 8 feet. \$2.50 each; \$25.00 per dozen.

**LIQUIDAMBER.** (Sweet Gum.) A very ornamental tree and beautiful at every stage. 4 to 5 feet, \$2.25 each; \$22.50 per dozen.

**MAPLE, Norway.** A large, handsome tree with a compact-rounded head of spreading branches. 8 to 10 feet, \$4.50 each; \$45.00 per dozen.

**MAPLE, Rock or Sugar.** An excellent shade tree of upright, dense growth. Grows to a large size and is long lived. 6 to 8 feet, \$2.50 each; \$25.00 per dozen.

**MAPLE, Silver or Soft.** Has wide, slender, spreading branches and thrives almost anywhere. 8 to 10 feet, \$2.00 each; \$20.00 per dozen. 10 to 12 feet, \$2.25 each; \$22.50 per dozen.

**OAK, Red.** A tree of rapid growth, growing into a large, majestic tree, the foliage turning dark red in fall. 6 to 8 feet, \$3.00 each; \$30.00 per dozen.

**OAK, Scarlet.** A noble tree with spreading branches; leaves turn scarlet in fall. 6 to 8 feet, \$3.00 each; \$30.00 per dozen.

**OAK, Pin.** Tree is fibrous rooted, transplants well and grows rapidly. Foliage turns bright red in fall. 6 to 8 feet, \$3.00 each; \$30.00 per dozen.

**POPLAR, Carolina.** One of the surest and most rapid growing trees. 8 to 10 feet, \$1.50 each; \$15.00 per dozen.

**POPLAR, Lombardy.** With age this tree becomes picturesque. 8 to 10 feet, \$1.75 each; \$17.50 per dozen. 10 to 12 feet, \$2.00 each; \$20.00 per dozen.

**SALISBURIA.** (Maiden Hair or Ginkgo.) A tall, sparsely branched, usually slender tree, with leaves similar in shape to the Maiden Hair Fern. 6 to 8 feet, \$2.50 each; \$25.00 per dozen.

**SYCAMORE.** *Plantanus Orientalis.* (Oriental Plane.) Very hardy and does well in moist places. Thrives in smoky cities, making it a good tree for city planting. 6 to 8 feet, \$2.00 each; \$20.00 per dozen.

**TULIP TREE.** (*Liriodendron Tulipifera.*) Tall, hardy tree of pyramidal habit and rapid growth. Bears flowers of a creamy-yellow and orange color in June. 6 to 8 feet, \$2.25 each; \$22.50 per dozen.

# FRUIT TREES, SMALL FRUITS, GRAPE VINES, ETC.

Select thrifty young trees in preference to old or very large ones, as the roots are more tender and fibrous. They bear transplanting better and are more apt to live; they can also be more easily trimmed and shaped to any desired form and in the course of a few years will usually out-strip the older ones in growth. If not prepared to plant when your stock arrives, "heel in" by digging a trench deep enough to admit all the roots and setting the trees therein; carefully pack the earth about the roots, taking up when required. Never leave the roots exposed to the sun and air.

SENT BY EXPRESS AT EXPENSE OF PURCHASER.

## APPLES—STANDARD

5 to 7 feet high. 90c each; \$9.00 per dozen.

### SUMMER VARIETIES

**EARLY HARVEST.** Pale yellow, fine flavor; August.

**RED ASTRACHAN.** Large, crimson, juicy, with rich sub-acid flavor; hardy; July.

**YELLOW TRANSPARENT.** Pale yellow; good quality.

### AUTUMN VARIETIES

**DELICIOUS.** Large, dark red, juicy, aromatic.

**DUCHESS OF OLDENBURG OR DUCHESS.** Large, rounded, yellow, striped red, tender, juicy.

**FALL RAMBO.** Yellow, streaked with red.

**MAIDEN'S BLUSH.** Large, beautiful, blush cheek.

### WINTER VARIETIES

**BALDWIN.** Large, dark red; productive.

**BANANA.** Large, golden yellow, shaded crimson.

**ENSEE.** Bright red in color and a splendid keeper.

**GRIMES GOLDEN.** Medium to large, skin golden yellow, flesh crisp, tender, juicy; long keeper.

**JONATHAN.** Medium, red and yellow, flesh tender, juicy.

**NORTHERN SPY.** Large, striped red; good keeper.

**ROME BEAUTY.** Large, yellow, shaded red, tender.

**STAYMAN'S WINESAP.** Fruit medium size, mostly covered with red on a yellow ground; flesh fine, crisp, juicy.

**WINESAP.** Medium, deep red, rich, sub-acid.

**YORK IMPERIAL.** Medium, yellow, shaded red, firm, juicy, sub-acid; an excellent shipping apple.

## CRAB APPLES

5 to 7 feet high. 90c each; \$9.00 per dozen.

**HYSLOP.** Deep crimson; very popular on account of its large size, beauty and hardness.

**TRANSCENDANT.** Skin yellow, striped with red.

## CHERRIES

### HEART AND BIGARREAU (Sweet)

4 to 6 feet, first-class. \$1.50 each; \$15.00 per dozen.

**BLACK TARTARIAN.** Very large, purplish-black, juicy rich, excellent, productive; last of June.

**GOVERNOR WOOD.** Large, light red, juicy, rich, delicious; tree healthy and productive; June.

**ROCKFORT BIGARREAU.** Large, yellow, juicy and sweet.

**YELLOW SPANISH.** Large, pale yellow with light red cheek; late June.

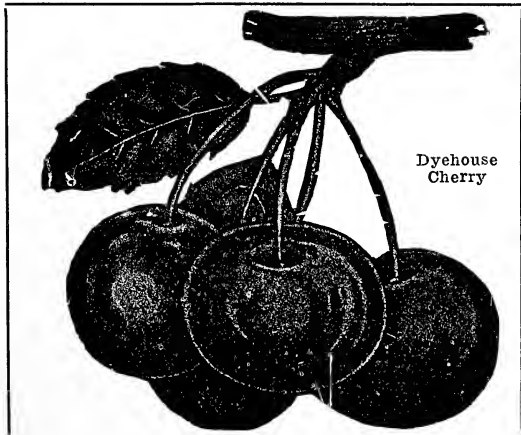
### DUKE AND MORELLO (Sour)

4 to 6 feet, first-class. \$1.50 each; \$15.00 per dozen.

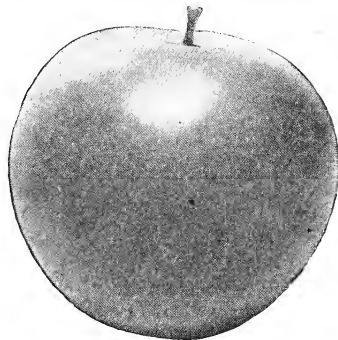
**DYEHOUSE.** A very early and sure bearer; ripens a week before Early Richmond; fine quality; June.

**EARLY RICHMOND.** Medium, dark red, fine quality.

**ENGLISH MORELLO.** Dark red, rich, acid, juicy, and good.



Dyehouse  
Cherry



Banana

## PEACHES

4 to 5 feet. 60c each; \$6.00 per dozen.

**CHAMPION.** Creamy white with red cheeks, freestone, excellent quality; early in August.

**CRAWFORD'S EARLY.** Large, yellow, of good quality, freestone; early in September.

**CRAWFORD'S LATE.** Large, yellow with red cheeks, freestone; last of September.

**ELBERTA.** Large, yellow with red cheek, flesh yellow, firm, juicy, of high quality; very prolific; September.

**HEATH CLING.** Large, flesh white, juicy and melting; October.

**OLD MIXON FREE.** Large, yellow with red cheek; September.

## PEARS—STANDARD

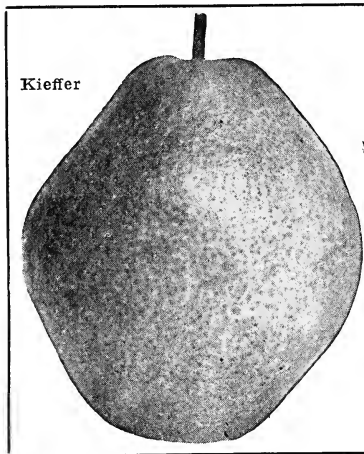
5 to 7 feet, first-class. \$1.50 each; \$15.00 per dozen.

**BARTLETT** Large clear yellow, juicy. August.

**FLEMISH BEAUTY.** Fruit is large, skin pale yellow, flavor sweet and melting; September and October.

**KIEFER'S HYBRID** Large, rich color and good quality.

**SECKEL.** Small yellowish brown one of the best.



Kieffer

## PLUMS

### STANDARD ON PLUM STOCKS

5 to 7 feet. \$1.50 each; \$15.00 per dozen.

**ABUNDANCE.** Large, yellow with heavy bloom, good quality; very prolific.

**BURBANK.** The largest and best variety; color red; excellent quality; hardy and vigorous grower.

**RED JUNE.** Large, red, fine quality; strong, vigorous grower; finest extra early plum.

**SHIPPER'S PRIDE.** Large, purple, fine, juicy and sweet.

**YELLOW EGG.** A beautiful yellow, egg-shaped plum of large size, flesh yellow; late August.

## QUINCES

3 to 5 feet. \$1.75 each; \$17.50 per dozen.

**APPLE OR ORANGE.** Large, bright golden yellow, fine quality; flesh firm, cooks tender; October.

## SUITABLE DISTANCE FOR PLANTING FRUIT TREES.

Apples, standard, 30 to 40 feet. Pears, standard, 18 to 20 feet. Peaches, 16 to 18 feet. Cherries, sweet 18 to 20 feet. Cherries, sour, 15 to 18 feet. Plums, 16 to 20 feet. Quinces, 10 to 12 feet.



## SMALL FRUITS AND GRAPE VINES

By Express or Freight at Expense of Purchaser.

### BLACKBERRIES

\$1.00 per dozen; \$6.00 per 100.

The Blackberry is one of the most profitable fruits to grow when properly managed, as it thrives well in almost any soil, but reaches perfection in a strong loam tending towards clay.

**Ancient Briton.** Large fruit, stems loaded with good sized berries of fine quality; vigorous grower, one of the best.

**Eldorado.** Large fruit, borne in large clusters and ripen well together, fine quality; good keeper.

**Mersereau.** Extremely hardy, berries large, extra quality, sweet, rich and melting without core; good keeper and shipper; vigorous grower.

**Taylor.** Medium-sized fruit of fine flavor, extremely hardy and very productive; ripens late.

### DEWBERRY

**Lucretia.** One of the low-growing, trailing blackberries. It has proved highly satisfactory wherever tried, and many say it is the best of all the blackberry family. \$1.00 per dozen; \$6.00 per 100.

### CURRENTS

#### Two-Year-Old Plants

A cool, moist soil is best adapted to the growth of Currants. Strong, moist loams with a considerable mixture of clay, are good. Even well-drained, stiff clay will give good results.

**Champion.** This is one of the best black currants; fruit is above medium size. 30c each; \$3.00 per dozen.

**Perfection.** A new red variety which promises to eclipse all other sorts, combining size, color, high quality and productiveness. 40c each; \$4.00 per dozen.

**White Grape.** Best white variety. 30c each; \$3.00 per dozen.

### GOOSEBERRIES

#### Two-Year-Old Plants

The best results are obtained by planting in moist, but not soggy, clay loam, but they will do reasonably well in any well drained soil if they are well fertilized once each year.

**Downing.** Large, pale green, and of splendid quality for both cooking and table use. 30c each; \$3.00 per dozen.

**Houghton's.** Small to medium; roundish, oval, pale red, sweet, tender. 30c each; \$3.00 per dozen.

**Industry.** Berries of largest size, excellent flavor, pleasant and rich, dark red color when fully ripe; strong upright grower; an immense cropper. 40c each; \$4.00 per dozen.

**Smith's Improved.** Large, pale, greenish yellow, skin thin, of excellent quality. 40c each; \$4.00 per dozen.

### GRAPE VINES

#### ALL TWO-YEAR-OLD SELECTED STOCK

This is one of the most satisfactory crops that can be grown, because it can be depended upon practically every year. Grape vines will grow almost anywhere, but they should be carefully cultivated and pruned.

#### BLACK OR PURPLE GRAPES

\***Concord.** Large, black grape, hardy and productive; juicy and sweet. 25c each; \$2.50 per dozen.

**Ives' Seedling.** Dark purple, sweet. 30c each; \$3.00 per dozen.

**Moore's Early.** Ripens ten days earlier than Concord; bunch and berry round and large. 25c each; \$2.50 per dozen.

#### RED GRAPES

\***Catawba.** Berries large, round; when ripe a dark copper color, sweet, rich. 25c each; \$2.50 per dozen.

**Delaware.** Small, light red, thin skin; very juicy, sweet, sprightly. 25c each; \$2.50 per dozen.

#### WHITE OR YELLOW GRAPES

\***Niagara.** Bunch and berries large, light greenish white, slightly ambered. 25c each; \$2.50 per dozen.

**Pocklington.** Bunch and berry very large; attractive, golden yellow color. 30c each; \$3.00 per dozen.

Varieties marked with a \* are best for arbors.

#### SUITABLE DISTANCE FOR PLANTING SMALL FRUITS AND GRAPE VINES

Blackberries, 5 to 7 feet. Currants, 3 to 4 feet. Gooseberries, 3 to 4 feet. Raspberries, red, 3 to 4 feet. Raspberries, black, 4 to 5 feet. Strawberries,  $1\frac{1}{2} \times 1\frac{1}{2}$  feet. Strawberries, in beds,  $1\frac{1}{2} \times 1\frac{1}{2}$  feet. Grapes, 8 to 10 feet.

We do not guarantee or replace Plants, Shrubs or Trees, at prices quoted.

### RASPBERRIES

Once the Raspberry patch is established, it requires very little cultivation. They will do well in any good soil, but thrive best in deep, moist (not over wet) soil. The lighter loams are preferable for the red varieties, while the heavier loams suit the black varieties best.

**St. Regis.** The berries are a bright crimson, of large size and surpassing quality—rich, sugary with full raspberry flavor. They are of exceedingly meaty, firm texture and keep in good condition longer after being gathered than any other red raspberry. 75c per dozen; \$5.00 per 100.

The following varieties are all 75c per dozen, \$5.00 per 100.

**Cardinal.** Produces a fine quality of dark red or almost purple berries through a long season.

**Cumberland.** The largest black cap; a healthy, vigorous grower; very productive.

**Cuthbert.** Large, firm, deep rich crimson, of excellent quality, tall, strong and vigorous.

**Gregg.** A large black variety; fruit firm.

**Kansas.** The hardest black cap; strong, vigorous.

### STRAWBERRIES

Strawberries will do well in any soil that will grow good corn. Soil should be made fine and loose. A generous supply of well rotted manure incorporated in the soil is of great benefit.

Dip the plants in water as soon as received, and bury the roots in moist, shady ground till you are ready to set them out.

**Superb.** The Ever-bearing Strawberry is a truly wonderful fall-bearing variety, and what makes it unusually profitable is the fact that it also produces a heavy yield of choice fruit in the early summer, along with the standard varieties. They continue to give large yields of choice berries throughout August, September and in October up to the time the ground is slightly frozen. Plants of this variety which are set in the spring should have the blossoms removed until the first of July. The remainder of the blossoms may be left to develop into berries, and a good crop of fruit

will thus be secured the same season the plants are set, without injury to the plants. 60c per dozen; \$3.00 per 100.

The following varieties are all 50c per dozen;

\$1.50 per 100.

**Aroma.** One of the finest for long-distance shipping. The large berries are bright red to the center, of conical shape with prominent and attractive yellow seeds.

**Gandy.** One of the best late varieties. Berries large, of fine form and excellent quality.

**Glenn Mary.** Large to very large, sometimes flattened; sweet, rich, delightful.

**Nick Ohmer.** A fine, fancy market berry and always superb for the table; a giant in size.

**Senator Dunlap.** Exceedingly vigorous. Fruit large, regular and attractive in form, deep red to the center; firm in substance.

**Wm. Belt.** Berries very large, conical, bright red, of good flavor. The plant is strong, healthy, very fruitful; season medium to late.

## Hedge Plants

**California Privet.** (*Ligustrum Ovalifolium*.) Its foliage is a rich, dark green and is nearly evergreen, remaining on the plant until mid-winter. It is of free growth and succeeds under the most adverse conditions, such as under dense shade of trees. The most advantageous manner of planting is in double rows, the two rows being about 8 inches apart. The plants should be set 12 inches apart in the row, alternating the plants. In order to secure a dense hedge from the base up, the plants should be severely pruned the first two seasons.

12 to 18 inches, \$.75 per dozen; \$4.50 per 100.

18 to 24 inches, 1.00 per dozen 6.00 per 100.

24 to 30 inches, 1.20 per dozen; 7.50 per 100.

# Horticultural Tools and Sundries

**CANES.** Six to eight feet long for plant stakes; per 100-----\$1.75  
**CANES.** Japanese, green dyed, 3 feet long; per 100-----\$1.50  
**GLASS CUTTER, CRESCENT.** The best cheap cutter on the market. Each, 20c; per dozen-----\$2.00  
**GLAZING POINTS, PEERLESS.** Will stop your glass from sliding; made of galvanized steel wire.

Per 1,000  
**No. 1.** For small single-thick glass, 75c  
**No. 2.** For large single-thick glass, 75c  
**No. 2½.** For double-thick glass-----75c  
**GLAZING POINTS, ZINC CITY.** Effective on large or small glass; easy to drive, easy to extract.

Per lb.-----60c  
**KNIVES, PRUNING.** \$1.25 to \$2.00  
**KNIVES, BUDDING.** \$1.00 to \$1.75  
**KNIVES, ASPARAGUS.**-----40c  
**LABELS, WOOD.** For pots, painted: Per 100 Per 1,000

4x ½-inch-----\$0.30 \$2.50  
 5x ½-inch-----.35 3.00  
 6x ½-inch-----.40 3.50  
 8x ¾-inch-----.90 8.00  
 10x ¾-inch-----1.00 9.00  
 12x1 ½-inch-----1.25 11.50  
**LABELS, Tree, notched, copper wired:** per 100, 35c; per 1,000, \$3.00.  
**LABELS, Tree, copper; No. 1.** per 100, \$1.50; **No. 2,** per 100-----\$2.00

**LAWN CLEANER, PENNSYLVANIA.** This machine will clean your lawn more thoroughly and quicker than three or four men can do it with hand rakes; and greatly benefit the turf. In the autumn it takes up the heaviest fall of leaves. It is made of metal, wood and canvas and is put together in the most durable and thorough manner. Price-----\$35.00  
**LAMP, DEFIANCE FUMIGATING.** (For use in greenhouses.) It burns kerosene. Used by prominent Market Gardeners all over the country. Each, 65c; per dozen-----\$6.75  
**MASTICA.** For glazing greenhouses. One gallon will cover about 300

running feet (one side); gallon-----\$2.75  
**MASTICA GLAZING MACHINE.** Price-----\$2.75

**MATS, HOTBED—Strong Burlap.** Indestructible and warm. Size, 76x76 inches-----\$3.00  
**MATTOCK, LONG CUTTER.** With handle-----\$1.75  
**MATTOCK, CRONK'S GARDEN.** 90c

**PLANT BED CLOTH.** A substitute for glass, answering many uses equally well:  
 Medium Grade, per yard-----25c  
 Heavy Grade, per yard-----30c  
 Write for special prices on large lots.

**PRUNING KNIVES, TREE—Kansas Improved.** 6 ft. Price-----\$3.00  
**PRUNING KNIVES, TREE—Happy Thought.** 6 ft. Price-----\$2.00

**PRUNING KNIVES, TREE—Detroit.** 6 ft. Price-----\$2.00  
**PRUNERS LITTLE GIANT TREE.** To use on a pole. Price-----\$1.25

**PRUNING SHEARS, CLYDE.** No. 1-----\$2.75 No. 2-----\$2.50  
**PRUNING SHEARS, HAND.** California Pattern. 9-inch-----\$1.00  
 Wiss Heavy. Fine quality, 9-in. 50c  
 Ladies' Hand-----1.50

**PUTTY, PEERLESS BLACK GLAZING.** For glazing greenhouses. Remains flexible and pliable for years. Gallon-----\$1.75

**PUTTY, TWEMLOW'S LIQUID GLAZING.** For bedding glass in sash. One gallon will cover about 600 running feet (one side). Gallon-----\$2.75

**PUTTY BULB.** A useful tool for applying liquid putty and glazing greenhouses-----\$1.35  
**RAFFIA, NATURAL.** The best tying material for plants, also used for making hats, baskets, etc. Per lb.-----40c 5 lbs.-----\$1.75

**RAFFIA, COLORED.** For making baskets and fancy work in following colors: Black, Orange, Pink, Red and Yellow. 1 oz.-----15c 1 lb.-----\$1.25

**SASH, HOTBED, UNGLAZED.** Made from strictly clear Cypress lumber. White lead used on the tendons, and iron dowel pins at the corners:  
 No. 1. 3x6 ft., three rows. 10-inch glass. Each-----\$3.50 Dozen, \$35.00  
 No. 2. 4x6 ft., five rows, 8-inch glass. Each-----\$4.50 Dozen-----\$45.00

**SAWS, PRUNING.** 16-inch-----\$1.00 18-inch-----1.25  
**SAWS, PRUNING, Disston**-----\$2.25  
**SEED SOWER, LITTLE GIANT.** For sowing wheat, oats, rye, flax, grass seed, clover seed, etc.; in fact, any kind of seed broadcast. It weighs but three pounds-----\$1.85

**SPRINKLER, RUBBER, SCOLLAY'S.** Indispensable for fleral work and window gardening. Large size-----\$1.35  
**THERMOMETERS.** Hotbed or Mushroom-----\$2.50

**WATERING POT, GALVANIZED.** Made from best quality of iron and heavily galvanized. Two roses with each pot for fine and coarse watering. Long Spout, 4 qt., \$3.75; 6 qt., \$4.00; 8 qt., \$4.25; 10 qt., \$4.50; 12 qt., \$4.75.

**WAX GRAFTING.** ¼-lb., 15c; ½-lb., 25c; 1-lb., 40c.

**WIRE FOLDING PLANT STANDS.** There is more room for the pots and foliage than any other plant stand that takes the same amount of floor space.

3-Tray Wire Stand—Trays 7½ in. wide x 30 in. long-----\$5.00  
 2-Tray Wire Stand—Trays 7½ in. wide x 30 in. long-----\$4.00  
 1-Tray Wire Stand—Tray 10 in. wide x 24 in. long-----\$2.75

**WIRE WINDOW SHELF FOR PLANTS.** Strong, compact, with adjustable steel brackets; can be applied to any window moulding on flat part of same.

36-inch shelf, by 7½ inches wide, with brackets complete-----\$1.50  
 42-inch shelf, by 7½ inches wide, with brackets complete-----\$1.75

Lack of space prevents us listing all the Horticultural Tools and Sundries we carry—but will be pleased to supply any equipment needed at current prices.

## Standard Flower Pots, Azalea Flower Pots and Round Seed Pans

Size	Each	Dozen	Per 100
2 inch-----	\$0.03	\$0.30	\$2.00
2½ "-----	.03	.35	2.50
3 "-----	.04	.40	2.75
3½ "-----	.05	.45	3.25
4 "-----	.06	.50	4.00
5 "-----	.08	.75	6.00

Size	Each	Dozen	Per 100
6 inch-----	\$0.12	\$1.20	\$9.00
7 "-----	.18	1.75	14.00
8 "-----	.25	2.75	20.00
10 "-----	.60	6.50	
12 "-----	1.00	11.00	
14 "-----	1.75		

## Flower Pot Saucers

Size	Each	Dozen	Per 100
4 inch-----	\$0.04	\$0.35	\$2.50
5 "-----	.05	.50	3.50
6 "-----	.06	.60	4.50
7 "-----	.10	1.00	7.00
8 "-----	.12	1.20	
10 "-----	.20	2.00	
12 "-----	.25	2.75	

Our Flower Pots and Saucers are standard make, of extra fine finish, and bear shipping well. No charge for Packing.

## McCullough's Plant Tubs

An excellent tub, neat and durable. Made from ¾ inch Cypress, with iron handles and feet, 3 iron hoops and 2 coats of green paint.

No.	Size	Each
No. 7—12 inches diameter, 11 inches high-----	\$2.00	
No. 8—13 inches diameter, 12 inches high-----	2.25	
No. 9—14 inches diameter, 13 inches high-----	2.50	
No. 10—15 inches diameter, 14 inches high-----	2.75	
No. 11—16 inches diameter, 15 inches high-----	3.00	
No. 12—17 inches diameter, 16 inches high-----	3.25	
No. 13—18 inches diameter, 17 inches high-----	3.75	
No. 14—19 inches diameter, 18 inches high-----	4.25	

## Cypress Plant Tubs

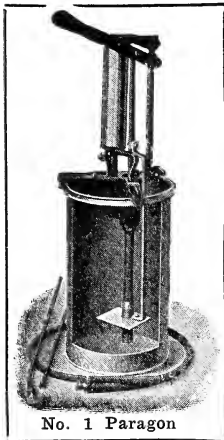
Made of seasoned selected cypress, bound with steel hoops. Painted green, inside and out, and top edge finished with round bevel.

No.	Size	Each
No. 7—12 inches diameter, 11 inches high-----	\$1.50	
No. 8—13 inches diameter, 12 inches high-----	1.75	
No. 9—14 inches diameter, 13 inches high-----	2.00	
No. 10—15 inches diameter, 14 inches high-----	2.25	
No. 11—16 inches diameter, 15 inches high-----	2.50	
No. 12—17 inches diameter, 16 inches high-----	2.75	
No. 13—18 inches diameter, 17 inches high-----	3.25	
No. 14—19 inches diameter, 18 inches high-----	3.75	

**PREPARED BULB FIBRE.** Growing bulbs, such as Roman Hyacinths, Dutch Hyacinths, Tulips and Narcissus in special prepared fibre has proven a great success. We strongly recommend our customers to try a few of the various bulbs in this way. The bulbs are potted the same way as in ordinary soil, just showing their tops. Do not press the fibre tightly, otherwise the roots do not work freely. Once potted, they require hardly any attention, only care must be taken to keep the compost moist, but not too wet. Peck, 50c; bushel, \$1.75.



# PARAGON SPRAYERS



No. 1 Paragon

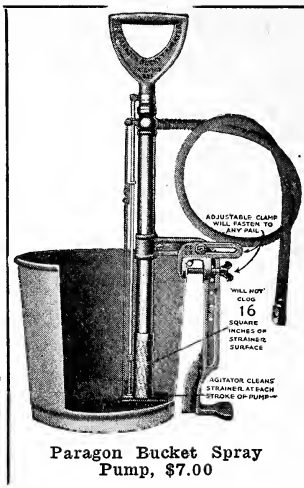
These Sprayers are strongly constructed and can be easily operated by one man. They can be brought in close proximity to the work, thereby eliminating the use of a long, expensive hose. Our patented, self-cleaning strainer prevents the necessity of first straining the liquid to be sprayed. The agitator also keeps the liquid thoroughly stirred.

The spray nozzle has only 1/32-inch outlet and spreads the liquid well, thereby covering a large surface with a small amount of liquid, making it a very economical sprayer.

All parts of the machine are made of the best material obtainable.

The reservoir is made of heavy galvanized iron. All essential fittings and valves are made of brass, making it strong and durable. The body of pump is cast iron, well ribbed to prevent breakage. The screen is of heavy perforated brass and will last many years. The pump frame can easily be removed from tank when it needs cleaning and by running water through machine after using, the entire machinery can be easily and thoroughly cleansed.

Suitable for spraying Insecticides and Fungicides on trees, shrubs and vines, as well as the application of White-wash and Cold Water Paints.



Paragon Bucket Spray Pump, \$7.00

## Price List of Paragon Sprayers

- No. 0. Capacity, 3 1/2 gallons. Equipment, 4 feet spray hose, 3 feet spray pipe, 1 mist spray nozzle, 1 steel cap for mist nozzle, 1 straight spray. Price-----\$12.50
- No. 1. Capacity, 6 gallons. Equipment, 5 feet 6-ply hose, 5 feet spray pipe, two spray nozzles. Price \$17.50
- No. 3. Capacity, 12 gallons. Equipment, 10 feet 6-ply hose, 7 1/2 feet spray pipe, two spray nozzles. Mounted on strong steel truck and can easily be wheeled to any desired place. Truck is easily detached when desired. Price-----\$25.00
- No. 3. Machine without truck. Price-----\$21.50
- No. 4. Capacity, 28 gallons. Equipment, 20 feet 6-ply hose, 10 feet spray pipe, two spray nozzles. Mounted on two strong 30-inch wheels. Price-----\$39.50
- No. 4. Machine without wheels. Price-----\$29.50
- No. 5. Capacity, 50 gallons. Equipment, 25 feet 6-ply hose, 10 feet spray pipe, one 3-way spray nozzle, one single spray nozzle. This sprayer has solid cast brass

- pump and large air chamber. It is positively the very best hand power sprayer made for tree spraying. Price-----\$45.00
- Nos. 1 and 3 Sprayers can be furnished with solid all cast brass pumps for-----additional-----\$5.00
- No. 4 Sprayer can be furnished with solid all cast brass pump for-----additional-----\$6.00
- Send for descriptive circular giving detailed information.

### PARAGON BUCKET SPRAY PUMP

In developing the Paragon Bucket Spray Pump, it has been the aim to produce an efficient spray pump at the lowest possible cost at the same time to incorporate in this pump the features that have built up the wonderful reputation of Paragon Sprayers. Price-----\$7.00

### BAMBOO BRASS LINED SPRAY POLES

- 12-foot lengths. Net price-----\$5.00
- 10-foot lengths. Net price-----4.75

## SPRAY PUMPS, ATOMIZERS AND BELLOWS

### Perfection Compressed Air Sprayer

It is just the thing for general work around the house, in gardens and small farms. Used for potato spraying, white-washing, spraying disinfectants, cold water paints, etc.

Seams are all riveted and soldered, giving the great strength necessary for the high pressure it develops.

Tank. 7 1/2 inches diameter, 20 inches long, capacity, 4 gallons.

Made of first quality galvanized sheets or all brass as ordered.

- No. 110G. Galvanized Steel Tank. Capacity, 4 gal., \$6.50
- No. 110B. Brass Tank. Capacity, 4 gallons-----\$9.50

MYER'S Lever Bucket Brass Spray Pump. Complete with hose and graduating Vermorel fine, coarse spray and solid stream nozzle-----\$6.00

MYER'S Defiance Brass Spray Pump. Complete with hose and graduating Vermorel fine, coarse spray and solid steam nozzle-----\$5.00

MYER'S Little Giant Brass Spray Pump. Complete with hose and imperial combination, fine, coarse spray and solid steam nozzle-----\$4.00

Four-foot Pipe Extension-----50c

Bordeaux Nozzle-----\$1.00

Graduating Vermorel Nozzle-----\$1.00

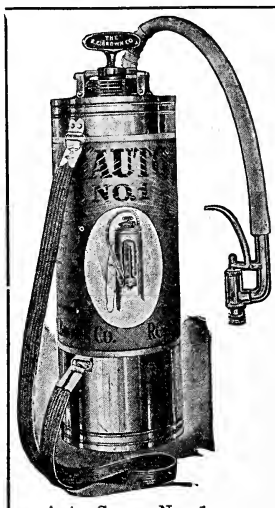


Perfection Compressed Air Sprayer

### AUTO Compressed Air Sprayer

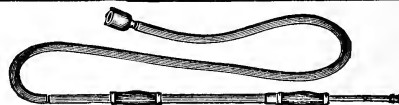
Can be suspended from the shoulder, allowing the free use of the arms. A few strokes of plunger in air chamber will compress enough air to discharge the entire contents. A practical machine for potatoes, tobacco, small fruits, vineyards, poultry houses, green houses, etc. Extension pipes for spraying trees.

- Auto Spray. No. 1-B. Brass tank, with Auto-Pop Nozzle-----\$9.50
- Auto Spray. No. 1-D Galvanized tank, with Auto-Pop Nozzle-----\$6.50
- Brass Extension. Two foot lengths-----60c
- Elbow-----40c



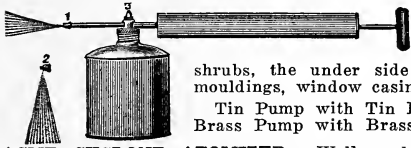
Auto Spray No. 1

### AUTO SPRAY NO. 5



- Auto-Spray No. 5. Pump, hose, nozzle and strainer, complete. Price-----\$5.00
- Brass Extension, extra, 60c. Elbow, extra-----40c

## SPRAYERS, ATOMIZERS AND BELLOWS—Continued



### THE ROBERTSON COMPRESSED AIR SPRAYER

Gives a continuous spray. By means of the universal nozzle the spray can be thrown on the under side of the leaves of plants and shrubs, the under side of beds and other furniture, into corners, behind doors, on top of mouldings, window casings, behind steam pipes, and other difficult places. Capacity, one quart.

Tin Pump with Tin Reservoir, each 90c; Tin Pump with Galvanized Reservoir, each, \$1.15; Brass Pump with Brass Reservoir, each, \$1.65.

**ACME CYCLONE ATOMIZER.** Well made of heavy, bright tin plate. Tank 4 by 5 inches, air chamber 14½ inches long, 1¾ inches in diameter. Capacity, 5 pints. Price, each-----50c

**ACME GLASS TANK ATOMIZER.** Tank, standard quart Mason jar, air chamber 1¾ inches in diameter, 18½ inches long. Plunger rod copper bessemer of our own special type which will not corrode or rust. If jar is accidentally broken can be replaced at once with a Mason Fruit Jar. Price, each-----75c

**ACME POWDER BELLOWS.** It requires no base of supplies; all you need carry is a can of dry Insecticide and bellows. Without stooping—the elbow does it—it applies any powdered poison on any plant in any desired quantity. The elbow may be detached, if desired. We also furnish a spreader for distributing the blast. Price, each-----\$1.50

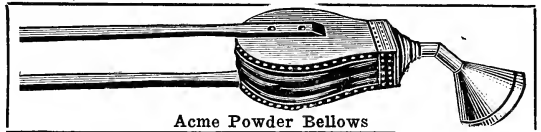
### WOODASON'S POWDER BELLOWS.

Single cone, small—\$2.50; single cone, large—\$3.75

**ACME FOG ATOMIZER.** Strong, durable and satisfactory. Price, each-----50c

**MIDGET ATOMIZER.** A small, compact, substantial and very efficient Tin Sprayer. Price, each-----35c

**HUDSON POWDER GUN.** Tank 3 inches in diameter; 3 inches deep. A small and effective Powder Gun. Price, each-----50c



Acme Powder Bellows

## INSECTICIDES AND FUNGICIDES

Liquid Insecticides and Poisons cannot be sent by mail.

We cannot emphasize too strongly the importance of spraying with Lime-Sulphur Solution or Scalecide while the trees are dormant.

As soon as possible after the leaves have fallen, spraying should begin on Shrubs, Shade and Fruit Trees, as the scale insects at that time are more readily destroyed. Spray any time during the fall and winter on a bright sunny day, when the temperature is not under 40 degrees.

We are constantly prepared to supply either of these sprays in any quantity.

### SCALECIDE

Scalecide is more than a Scale Spray—it is a tree invigorator, destroying blight cankers from which fire blight, collar rot, root rot, etc., is spread. As a delayed dormant spray when the buds are just starting it controls aphids without the addition of Nicotine.

Mixes Instantly with Water and Stays Mixed

Add one gallon of "Scalecide" to 15 gallons of water, stir, and you are ready to spray any kind of tree when the leaves are off, provided it is not too cold to be comfortable.

Use a fine spray nozzle and thoroughly wet the tree from the topmost tip down to the ground and around the base of the tree and you can rest assured that you will have accomplished everything you could with any other dormant spray or combination of Sprays, and in addition, some things they cannot do.

If used according to directions, will kill every San Jose Scale that comes in contact with it.

1 qt., 60c; 1 gallon, \$1.40; 5 gallons, \$6.25; 10 gallons, \$10.60; 15 gallons, \$13.50; 50 gallons, \$38.00.

### S. W. DRY LIME-SULPHUR

From 10 to 12 pounds of S. W. Dry Powdered Lime-Sulphur should be used with 50 gallons of water, for a dormant spray. 1 lb. can, 35c; 5 lb. can, \$1.40; 10 lb. can, \$2.25; 25 lb. can, \$4.50.

### LIME-SULPHUR SOLUTION

For fall, winter and early spring spray. Destroys San Jose Scale, Peach Leaf Curl, Bud Moth, Apple Aphid, Blister Mite, any Scale Insects or Bark Lice. 1 gallon will make 8 gallons spraying liquid. 1 qt., 50c; ½ gal., 75c; 1 gal., \$1.00; 5 gal., \$4.00; ½ bbl. (25 gals.), \$9.00; 1 bbl. (50 gals.), \$14.00.

### FISH OIL SOAP

For destroying insects on Plants, Trees, Vines, etc. This is also a contact remedy.

½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.25; in bulk, 25 lbs., \$4.00.

### "BLACK LEAF 40"

For Aphid indoors use ¾ pint "BLACK LEAF 40" to 100 gallons of water or 1 teaspoonful to 1 gallon of water, with sufficient soap in water to make good suds. Several formulas for destroying other sucking insects on each package. This is a contact remedy. 1 oz. bottle, 35c; ½ lb. tin, \$1.25; 2 lb. tin, \$3.50; 10 lb. tin, \$13.50.

### ZENKE'S LIQUID FUNGICIDE

Powerful, reliable remedy for Leaf Spot, Leaf Rust, Scab, Mildew, Black and Brown Rot and most other Fungoid troubles. Per gallon, \$3.00.

(Sufficient to make 50 gallons of solution.)

### ZENKE'S COMPOUND PLANT INSECTICIDE

Is a contact remedy (Liquid). Very effective against Plant Lice, Black and White Fly, Mealy Bugs, Scale Insects, Eggs and Larva.

A very effective wash for Palms and Rubber Plants. 8 oz. can, 25c; per gallon, \$2.00. (One gallon is sufficient to make 20 to 35 gallons of solution.)

### HALL'S NICOTINE FUMIGATOR

For fumigating greenhouses—12½ per cent Nicotine guaranteed. One cone will fill 7,000 cubic feet with deadly Nicotine fumes. Three cones will rid the average size greenhouse (20 by 100 ft.) of aphids, thrips and similar soft-bodied sucking insects and the cost will be only 25c. 1 lb. tins, \$1.25; 2½ lb. tins, \$2.50; 10 lb. tins, \$8.50.

### NICO-FUME LIQUID

For destroying Aphid, Thrip and Red Spider. Contains 40 per cent nicotine.

Use one to two teaspoonfuls of Liquid to each gallon of water. This is a contact remedy. ¼ lb., 75c; 1 lb., \$2.25; 4 lbs., \$8.00; 8 lbs., \$15.00.

### NICO-FUME PAPER

Strips of paper strongly saturated with Nicotine. These, when suspended and lighted, make one of the best and simplest methods of fumigating greenhouses.

Use 4 to 6 sheets for ordinary house 100 feet long by 20 feet wide. Price, air-tight cans, 24 sheets, \$1.25; 144 sheets, \$5.50; 288 sheets, \$10.00.

### PARACIDE (Para-Dichlor-Benzene)

For Peach Tree Borers

(Directions for Use.)

**First:** Prepare and level the ground around the base of the tree by clearing off the grass and weeds for a distance of 15 inches from the tree. Do not dig up the soil more than is necessary. Scrape gum and dirt from collar of tree.

**Second:** Apply one ounce (2 tablespoons) of Paracide evenly on the ground in a circular band entirely around the tree. Take care that the inner part of the band is 2 inches per tree away from the tree trunk. Use one ounce per tree by weight, somewhat more for very large trees.

**Third:** Cover the Paracide carefully with a few shovels of dirt and pack it down with the back of a shovel, making a cone-shaped mound around the tree.

The packed earth holds the gas which is given off from the Paracide. This gas is heavier than air. It works downward even through the most dense soils to the trunk and to the roots of the trees, where it reaches and kills the borers.

**Time of Application:** The best time to apply is in the fall of the year after all the eggs have hatched. In case a fall application has not been made, a spring treatment is desirable. One annual treatment in the fall, if properly made, will give a high degree of protection. Apply about September 1st for Michigan, Ohio, Connecticut and New York; about September 10th for New Jersey, West Virginia, Maryland, Illinois and Indiana; about September 25th for North Carolina and the Ozarks; about October 10th for Georgia and Texas.

Prices: 1 lb., 50c; 5 lbs., \$2.25; 10 lbs., \$4.00; 25 lbs., \$7.50; 50 lbs., \$14.00; 100 lbs., \$26.00.

# McCullough's High Grade Fertilizers

All Fertilizers Delivered Free on Board Cincinnati. Prices Subject to Change Without Notice.

The benefits arising from the use of Commercial Fertilizers are too well known, and their value too well established, to require any argument or explanation. Soils that have been almost entirely exhausted by successive croppings have, by their use, been restored to their former fertility; in fact, bring larger crops than when the soil is new.

## HOW TO APPLY COMMERCIAL FERTILIZERS

For Cereals: Apply 200 to 500 lbs. per acre.

For Vegetables and Fruits: Apply 500 to 1,000 lbs. per acre.

For Meadows and Alfalfa: Apply 300 to 500 lbs. per acre at seeding time, or as a top dressing.

For Corn: Drill 200 to 400 lbs. per acre all over the field before planting. Then apply 100 to 125 lbs. per acre along the row (not in the hill), at planting.

If your land is sour, we recommend sweetening with lime some weeks before applying fertilizers.

## PURE BONE MEAL

This pulverized ground bone is excellent for rose culture and lawns. It decomposes rapidly and is quickly effective. Should be applied at the rate of 400 to 500 lbs per acre. Analysis: Ammonia 2 per cent; total phos. acid, 27 per cent.

1 lb., 10c; 5 lbs., 35c; 10 lbs., 65c; 25 lbs., \$1.15; 50 lbs., \$2.00; per bag of 125 lbs., \$4.00.

## SHEEP MANURE—Pulverized

This is a natural manure; excellent for mixing with the soil. Strewn over and dug into the vegetable garden or placed directly in drills or hills, it promotes a rapid, steady growth. Especially valuable for lawns, contains all the constituents for promoting a quick, luxuriant growth and a rich green color. Use at the rate of from 500 to 600 pounds per acre. For pot plants, mix one part of sheep manure to six parts of soil. For use in the vegetable garden spread over the surface and dig in. Being soluble, it readily makes a safe liquid manure—one pound to five gallons of water can be used. 1 lb. carton, 10c; 5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.50; 100 lbs., \$2.25.

## CATTLE MANURE—Shredded

A substitute for stable manure in gardens and green houses, as it supplies plant food, humus and organic matter; largely used for rose culture and for mulching. Spread on lawns in the fall at the rate of 100 lbs. to each 1000 square feet. The quality we offer is selected manure taken from paved Stock Yards cattle pens—dried and sterilized by a high temperature direct heat process which kills weed seeds, fungus and disease germs. 100 lb. bags only. Per bag of 100 lbs., \$2.25.

## LAWN LIME—The Grass and Garden Tonic

This lime is especially prepared for use on soil, as it is essentially a plant food, useful for correcting acid soils, also for binding sandy soils and loosening clay soils. Should be applied at the rate of 1,000 to 2,000 lbs. per acre for sandy soils and 2,000 to 3,000 lbs. per acre for clay soils, a few weeks before applying Commercial Fertilizers.

Per bag of 100 lbs., \$1.25; 500 lbs., \$5.50; 1,000 lbs. \$10.00.

## HYDRATED LIME

This lime is used for sweetening acid or sour soils. 3 lb. package, 15c; bag of 50 lbs., \$1.00; 5 bags (250 lbs.), \$4.50; 10 bags (500 lbs.), \$8.00.

## AGRICULTURAL LIMESTONE

Destroys Soil Acidity—Loosens Up Clay Soils—Tightens Up Sandy Soils.

Apply at the rate of 2,000 to 4,000 lbs. per acre, and may be applied at any season of the year.

Per bag of 100 lbs., \$1.15; 500 lbs., \$5.00; 1,000 lbs., \$9.00.

## MUSHROOM SPAWN

(One pound of Spawn is sufficient for a bed 2x6 feet.)

**English Miltrack Mushroom Spawn.** By mail, 30c per brick, postpaid; by express—customer to pay charges. 25c per brick; 5 bricks, \$1.00; 100 bricks, \$17.00.

**American Made Pure Culture Mushroom Spawn.** A very superior article, made in this country from carefully selected spawn, which it is claimed is much more vigorous than the imported article, and will produce Mushrooms of a very superior quality and flavor. The popularity of Pure Culture Spawn is increasing rapidly and many of the large growers are now using it. They claim it is a surer crop. Amateurs have much the best results with this kind. By express—customer to pay charges—per brick, 30c; 5 bricks, \$1.25; 100 bricks, \$20.00. By mail, 35c per brick; 5 bricks, \$1.50, postpaid.

Treatise on Mushroom Culture, 10c, or given with an order of 10 lbs. of Mushroom Spawn.

**Mushroom Culture.** (Wm. Falconer.) The most practical work on the subject, \$1.00.

## CROWN FERTILIZED HUMUS

This article is prepared from deposits of decayed vegetable matter. It has been successfully used for years and has proven to be worthy of extensive use. It is desirable for greenhouse and flower garden work, also for lawns and vegetables.

Humus in some form is the most essential element of plant life. It is rich in ammonia, phosphoric acid, potash and lime.

For pot plants, mix about one-third humus with two-thirds regular potting soil.

For lawns and greenhouse benches, it is applied as a top dressing from one-half to one inch in depth, which should be then worked in.

If grass seed is to be sown, then is the time to apply it, and on golf links it is used in a similar way.

For flower and vegetable garden, apply at the rate of one-half to two inches deep and fork in well in the soil, or apply it in trenches the same as you would well rotted manure.

The prepared Humus is dry, thoroughly pulverized, odorless and clean to handle and apply and absolutely free from weed growth.

The following quantities are required to effectively cover an acre. If applied ½-inch in thickness, thirty tons per acre; if 1-inch thick, sixty tons per acre, and for general lawn work as a top dressing, one hundred pounds will effectively treat about 800 square feet, or three tons per acre.

5 lbs., 25c; 10 lbs., 40c; 25 lbs., 75c; 50 lbs., \$1.25; 100 lbs., \$1.75; 500 lbs., \$8.00; 1,000 lbs., \$15.00.

## NITRATE OF SODA

Carries approximately 20 per cent of ammonia and comes in crystals which vary in size. It is sometimes lumpy and the lumps should be crushed to a powder before the material is applied. Owing to the fact that Nitrate of Soda is a highly concentrated form of plant food, care should be used in applying the material to plants on the leaf surface.

1 lb., 15c; 2 lbs., 25c; 10 lbs., \$1.00; 25 lbs., \$2.00; 50 lbs., \$3.50; 100 lbs., \$6.00.

## SULPHATE OF AMMONIA

Contains approximately 25 per cent of ammonia and comes in fine crystals which are very nice to apply broadcast.

1 lb., 15c; 2 lbs., 25c; 10 lbs., \$1.00; 25 lbs., \$2.00; 50 lbs., \$3.50; 100 lbs., \$6.50.

## HALF AND HALF

Is especially valuable for Field Crops, Potatoes and Grain. Should be applied at the rate of 400 to 500 lbs. per acre. Analysis: Ammonia, 2 per cent; total phos. acid, 16 per cent; potash K<sub>2</sub>O, 2 per cent.

5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.10; 50 lbs., \$2.00; per bag of 125 lbs., \$3.50.

## ACID PHOSPHATE 16 PER CENT

Apply from 200 to 400 lbs. per acre. Analysis: Available phos. acid, 16 per cent; insoluble, 1 per cent.

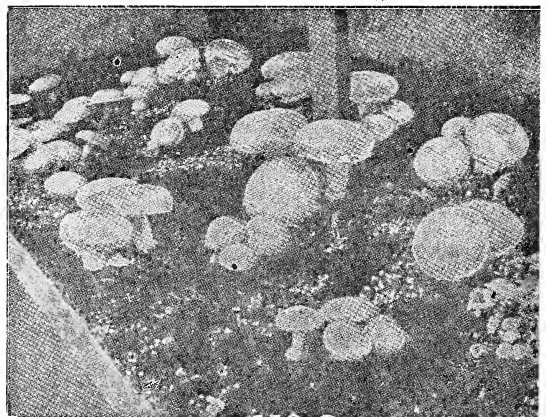
5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.50; per bag of 125 lbs., \$2.25.

## MOSS, PEAT AND POTTING SOIL

**Moss, Green Sheet.** For hanging baskets, etc. Per bale, 40c; large bundle (of 5 bales), \$2.00.

**Moss, Sphagnum.** For packing plants and growing orchids, etc. 1 lb., 15c; per bale, \$2.50.

**Potting Soil.** Peck, 35c; per bushel, \$1.25.



## STUCCO BIRD HOUSES

The birds which nest and harbor in cavities and hollows are in most instances the most valuable of our native birds, which love the vicinity of man, seemingly not only to delight him with chirp and song, but are the most diligent to keep plant life free from parasites and devouring insects.

Our model hutlets and cabins which we provide for these charming entertainers are appreciated by all bird lovers.



Titmouse Hut

### PRICE LIST OF HUTS AND CABINS

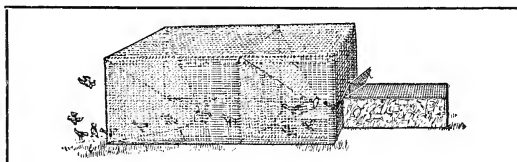
Wren Hutlet, each.....	\$2.50	Bluebird Hut, each.....	\$2.75
Titmouse, each.....	2.50	Chickadee Hutlet, ea.	2.50
Woodpecker and Flicker Hut, each.....	2.75		
Martin Houses .....	\$8.00 to \$50.00		
Feederies, Small .....	\$2.50 to 5.00		
Squirrel Cabins, each .....	8.00		

## SUET BASKET

Winter and summer you'll find a happy family of wild birds around you, provided you feed them. Our Suet Basket has a metal back, curved to fit a tree trunk to protect the tree from injury.

The stuffing of the basket portion is the work of an instant. Suet or beef trimmings is the best packing. In spring you can fill a part with hair, twine, feathers and cotton (nesting materials). Place the basket on the shady side in summer and the sunny side in winter. Weight, 2 lbs. Price, each, \$1.25; postage extra.

## The Dodson Improved Sparrow Trap



The Dodson Sparrow Trap is made of tinned wire, electrically welded, strong and durable—will last for years. It has sharp, adjustable needle points projecting from the mouth of each of the two funnels, which effectively prevent any sparrows from getting out of either the front or second enclosure. Size 36x18x12 inches. Price, complete with receiving box.....\$8.00

# Poultry Appliances and Supplies

## PRAIRIE STATE SAND TRAY INCUBATORS

If you are in search of the best Hot Air Incubator manufactured, the one that will hatch the largest number of strong, vigorous chicks, the Prairie State is the machine to buy. Send for Descriptive Catalogue.

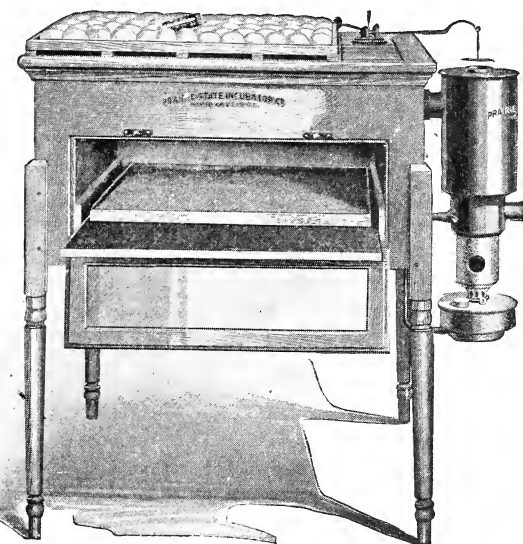
The Prairie State Incubators are built in four sizes, ranging from 100 to 390 eggs. All Prairie States are equipped with Sand Trays, Egg Trays, Nursery Mats, Thermometers, Egg Testers, Lamps and everything complete ready to operate.

### PRICE LIST OF PRAIRIE STATE

#### Sand Tray Diffusion Incubators

Standard No. 0, 100 hen eggs; 135 lbs. crated ..	\$30.00
Standard No. 1, 150 hen eggs; 160 lbs. crated ..	37.50
Standard No. 2, 240 hen eggs; 240 lbs. crated ..	52.50
Standard No. 3, 390 hen eggs; 325 lbs. crated ..	67.50

Egg capacity considered, the Prairie State Incubators are now the lowest priced high-grade machines on the market.



## Prairie State Junior Portable Hover

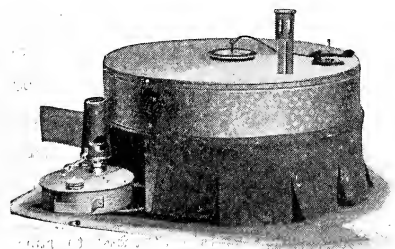
This hover is galvanized sheet steel throughout, and in size, substantial construction, chick capacity and economy of operation it is the equal of any lamp brooder on the market. Diameter of top, 23 inches. Capacity, 50 to 100 chicks. Price.....\$10.00

## The Home Hover

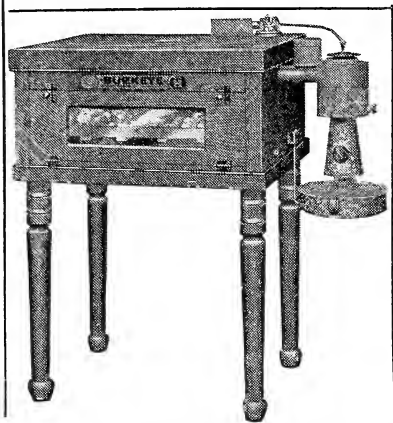
Built on the same general lines and same construction as the Junior Portable Hover. Diameter of top, 18 inches. Capacity, 25 to 50 chicks. Price .....

### PRAIRIE STATE INCUBATOR AND BROODER THERMOMETERS

Incubator Thermometer, Incline, with holder.....	\$1.00
Brooder Thermometer for Prairie State Brooders.....	1.00



Junior Portable Hover



## BUCKEYE INCUBATORS

We offer these Incubators as the best Hot Water Incubator on the market.

These Incubators are built in several sizes to meet all requirements both in size and price. Send for Descriptive Catalogue.

No. 14.	(Style E.)	Capacity, 65 eggs-----	\$16.50
No. 16.	(Style E.)	Capacity, 110 eggs-----	27.50
No. 17.	(Style E.)	Capacity, 210 eggs-----	36.75
No. 1.	(Standard.)	Capacity, 110 hen eggs, or 85 duck eggs-----	37.50
No. 2.	(Standard.)	Capacity, 175 hen eggs, or 140 duck eggs-----	44.50
No. 3.	(Standard.)	Capacity, 250 hen eggs or 200 duck eggs-----	57.75
No. 4.	(Standard.)	Capacity, 350 hen eggs, or 280 duck eggs-----	68.00
No. 5.	(Mammoth Standard.)	Capacity, 600 hen eggs, or 480 duck eggs-----	107.00

## THE NEWTOWN COAL BURNING COLONY BROODER

With the certainty that the highest prices ever known will prevail next season for poultry and eggs, no poultryman can afford to run another month without a modern

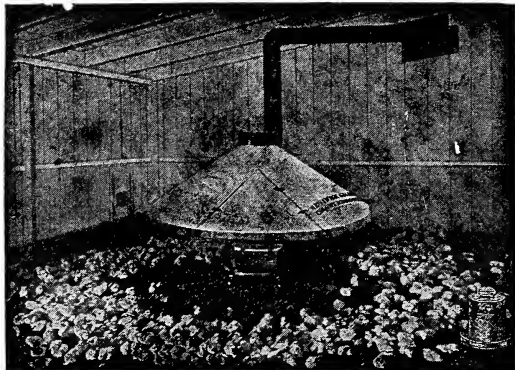
### NEWTOWN COLONY BROODER

This is true whether you have no Brooder or an inferior make of machine, because no one ever made money by using a non-dependable, half worn out, "cheap" brooder.

The Newtown "raises the most chicks and the best chicks with the least labor and at lowest cost." Burns Coal, the cheapest fuel—is self-feeding, self-regulating, free from fire danger—broods any number of chicks up to 1200 in one flock, according to the size of the stove and size of the building—reduces labor. It was the first brooder of this type ever put on the market—has been longer in use than any other and is endorsed by the most successful poultrymen in every state of the Union and nine foreign countries—almost in every nook of the world where poultry is raised the Newtown is used.

There can surely be no good reason to delay the purchase of a Newtown another week. See them on display at our store and we know you will buy a Newtown. Made in four sizes:

No. 6.	Capacity, 200 chicks or less-----	\$23.75	No. 11.	Capacity, 500 chicks or less-----	\$34.25
No. 7.	Capacity, 250 chicks or less-----	26.50	No. 12.	Capacity, 1200 chicks or less-----	42.00



## THE NEWTOWN OIL BURNING COLONY BROODER No. 44

One of the big faults of oil-burning brooders has been their inability to produce and properly distribute over a large floor space sufficient quantity of heat to make possible the successful brooding of large flocks of chicks in cold weather. This is overcome in the Newtown Oil-Burning Colony Brooder, because its construction is simplicity itself. The Burner is simple and can be lighted with an ordinary match. No smoke or fumes. No flaring up, no going out, nothing to get out of order. If you want an oil brooder this will please you and we sell it to you with the full assurance that it will do everything you have a reasonable right to expect.

It will care for any number of chicks up to 500, but we do not recommend more than 300 to 350. We believe that is enough to put under any brooder—you will raise more and better chicks in the end.

Each brooder is shipped with everything complete ready to operate. A thermometer and full instructions for operation are furnished with each brooder. Price----- \$27.50

Send for descriptive Catalogue of the Newtown line.

## DOUBLE QUICK GRAIN SPROUTERS

The Perpetual Poultry Silo that grows Green Feed while you wait. Sprouts in 20 to 30 hours and forces growths of an inch to two a day. Makes 2 to 6 bushels of green feed from one of dry grain. Many thousands of the Double Quick now in every part of the United States and Canada, and is in use in almost every civilized country in the world.

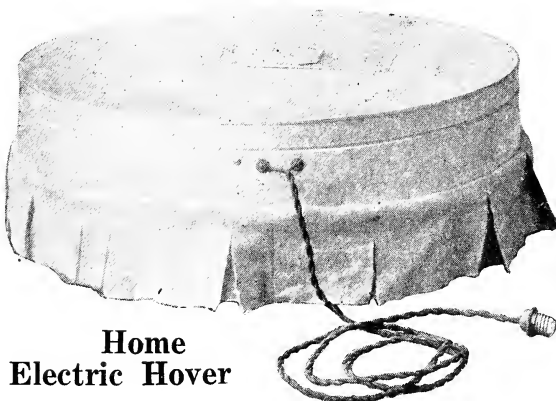
### PRICES, CAPACITY, WEIGHT, SIZE

No. 1.	1/4 bushel, 2 trays, 25 to 37 hens, 18x14x23 inches, 25 pounds-----	\$10.00
No. 2.	1/2 bushel, 4 trays, 50 to 75 hens, 18x14x30 inches, 35 pounds-----	13.00
No. 3.	1 bushel, 5 trays, 100 to 150 hens, 21x17x40 inches, 55 pounds-----	19.00
No. 4.	2 bushels, 6 trays, 200 to 300 hens, 25x20x44 inches, 75 pounds-----	26.00

NOTE 1—Capacities are given in dry grain.

NOTE 2—Furnished with lamp, thermometer, directions, etc.

NOTE 3—Largest sizes will pass through ordinary doors.

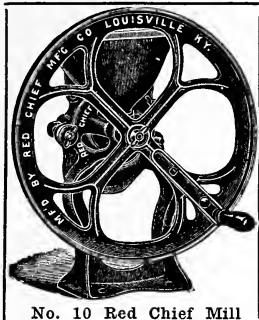


Home  
Electric Hover

Absolutely fireproof. Made entirely of galvanized iron with exception of the double curtain attached to rim; well insulated, no fire risk, no fumes, can be operated anywhere. It is so light in weight that it is easy for a woman to operate. Made in 3 sizes:

No. 1—18 inches in diameter, \$8.50. No. 2—25 inches in diameter, \$12.00. No. 3—35 inches in diameter, \$25.00





No. 10 Red Chief Mill

### "Red Chief"

Rapid Grinding Feed  
and Grist Mill  
For Grinding Small Dry  
Grain

- No. 1. Capacity, 1 to 2 bushels per hour. Fitted with crank—\$3.60  
No. 2. Capacity, 1 to 1½ bushels per hour—\$5.00  
No. 5. Capacity, 1½ to 2 bushels per hour—\$7.00

Nos. 1, 2 and 5 Mills clamp or bolt to box as desired.

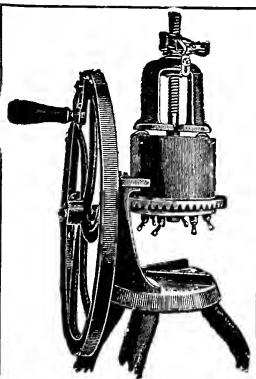
Have hooks on which to hang a bucket.

- No. 10. Capacity, 2 to 4 bushels per hour. Fitted with fly wheel. Price—\$8.50  
No. 15. Combined Hand and Power Mill. Capacity, 6 to 8 bushels per hour. Price—\$14.50  
No. 20. Power Mill. Capacity, 10 to 20 bushels per hour. Price—\$20.00

### Mann's Green Bone Cutters

- No. 5-C. For flocks of .5 to 50 hens. Weight 35 lbs. Price—\$12.50  
No. 5-B. For flocks of 25 to 50 hens. Weight 60 lbs. Price—\$15.50  
No. 5-B.M. For flocks of 25 to 50 hens. Weight 85 lbs. Price—\$18.75  
The No. 5-C, No. 5-B and No. 5-B, M. do not have the split hinged cylinder.  
No. 7. For flocks of 75 to 150 hens. Weight, 107 lbs. Price—\$20.75  
No. 7½. Capacity, 50 to 100 lbs. per hour. Weight 150 lbs. Price—\$29.00  
No. 9. For flocks of 200 to 300 hens. Weight, 170 lbs. Price—\$31.00  
No. 11. Capacity, 100 lbs. and upwards per hour. Weight, 215 lbs. Price—\$45.00  
No. 12. Capacity 150 lbs. per hour. Weight 260 lbs. Price—\$65.00

Send for Descriptive Catalogue of Bone Cutters.



### Moe's Round Baby Chick Feeder

The most convenient and commodious feeder on the market. Can also be used for water. Manufactured in two sizes.

- No. 11. Small—20c  
No. 12. Large—30c



### Moe's Single Feeding Troughs

For chicks and growing stock. Accurately stamped with dies. No rough edges, and can be hung on the wall. Sliding top.

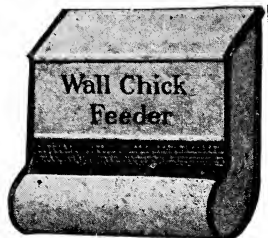
- No. 55. Length 12 inches, each—\$0.40  
No. 56. Length 18 inches, each— .45  
No. 57. Length 24 inches, each— .60



### Moe's Double Feeding Troughs

Double trough, with sliding top, easily filled and cleaned. Accurately stamped with dies. No rough edges.

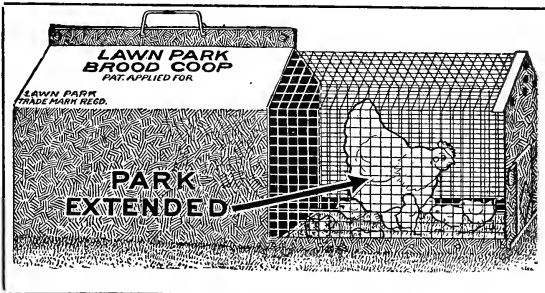
- No. 58. Length 12 inches, each—\$0.50  
No. 59. Length 18 inches, each— .65  
No. 60. Length 24 inches, each— .75



Wall Chick Feeder

### Wall Chick Feeder

Wire screen keeps chicks from wasting the food. Sloping top prevents roosting. 10-inch, each—\$0.75  
20-inch, each— 1.25



### Lawn Park Coop

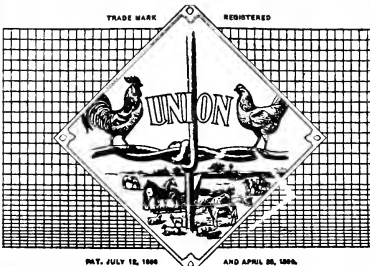
For successful chicken raising it is necessary to protect the young brood from rats, cats and other pests. The Lawn Park is the most successful coop on the market. Size, closed, 18x24 inches; with park extended, 18x48 inches. Height, 24 inches. Price—\$5.00

### Up-to-Date Square Coop

Made in one size only, 18x24 inches and 18 inches high. Price—\$3.00

### Union Lock Poultry Fencing

As all of the cables are the same length, and run the whole length of the fabric, every part can be stretched perfectly. Because of its strength and construction, this fence requires



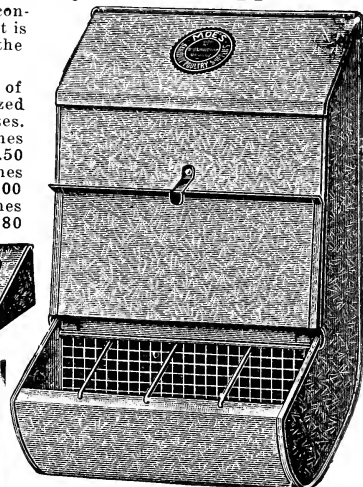
no top or bottom rail and no more posts than the ordinary woven stock fence, or about one-half the number needed in ordinary poultry netting. Union Fence is especially adapted for use where a

- light, attractive and neat appearing fence is required.  
12-in., bale of 10 rods, \$2.00 36-in., bale of 10 rods, \$4.35  
18-in., bale of 10 rods, 3.00 48-in., bale of 10 rods, 5.00  
24-in., bale of 10 rods, 3.60 60-in., bale of 10 rods, 5.50  
72-inch, bale of 10 rods, \$6.00

### Moe's Dry Mash Hopper

A trial will convince you that it is a Hopper of the greatest merit.

- Manufactured of heavy galvanized iron in three sizes.  
No. 35—8½ inches wide, each, \$1.50  
No. 36—12 inches wide, each, \$2.00  
No. 37—24 inches wide, each, \$2.80



**MOE'S NEVER CLOG AND WASTE PROOF HOPPER****Patent Pending**

This hopper does away with all trouble of feed clogging, no matter how coarse. Manufactured in 2 sizes.



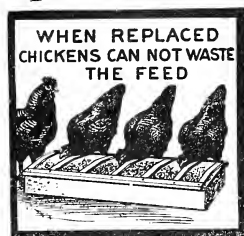
No. 37. 36-quart capacity, each-----\$1.50

**Moe's Feeder and Exerciser**

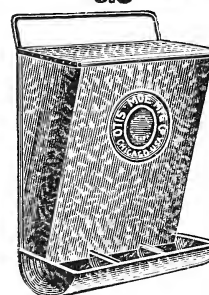
The exercise afforded by using this device keeps your hens in prime laying condition at all times. Manufactured in three sizes:

No. 52. 8-qt. capacity --\$1.45

No. 53. ½ bu. capacity-- 2.00

**Moe's Sanitary Feeding Trough**

Fowls at the Grain  
Pecking Operates the Spreader



Can be used for feed, wet mash or water.

No. 21. 12 in. long----\$0.45

No. 22. 18 in. long---- .65

No. 23. 24 in. long---- .90

**Moe's Grit and Shell Boxes**

No. 9. Moe's Grit Box; capacity about ½ bushel-----\$1.00

No. 90. 4 compartments\_ 1.35

No. 45. 2 compartments\_ .45

**Round Bottom Dry Food Hopper**

Dry mash and meat scrap feed readily. Each----\$0.90

**Prairie State Meat Scrap Hopper**

Capacity 10 pounds scrap. Each-----\$0.75

**Felker's Wall Feeders**

Practical dry mash feeders designed to hang on the wall.  
No. 12 Feeder. 12 inches long. Each-----\$0.50

**Egg Carriers**

Humpty Dumpty. 6 dozen size, each, 50c; 9 dozen size, each, 55c; 30 dozen size, each, \$1.00.

Moe's Regal. No. 14--15 eggs, each, 20c; No. 15--30 eggs, each, 40c; No. 16--50 eggs, each, 70c; No. 17--100 eggs, each, \$1.25; No. 18--12 duck or turkey eggs, each, 25c.

**Nest Eggs**

Lice Expelling. Each, 10c; 3 for 25c; per dozen, 75c.

Porcelain. 3 for 15c; per dozen, 40c.

Lime. 3 for 15c; per dozen, 40c.

**Egg Boxes**

Paper Carton. 1 dozen size, per dozen, 20c; per 100, \$1.50.

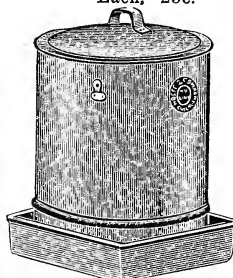
Continental Safety Carton. 1 dozen size, per dozen, 25c; per 100, \$2.25.

**Egg Cabinets**

Wood's Revolving. 150 egg size, \$1.50; 288 egg size, \$2.50.

**McCullough's Sanitary Glass Chick Fountain**

Best Fountain made for Chicks.  
Each, 25c.

**Moe's Improved Top Fill Fountains**

Provides pure, fresh water at all times. The double wall construction retards freezing, and keeps water cool in summer. Fills from the top, easily cleaned, and feeds automatically.

No. 1. Capacity 1 gallon, each-----\$1.75

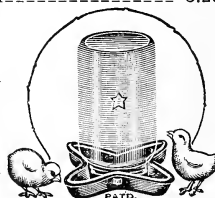
No. 2. Capacity 2 gallons, each----- 2.40

No. 4. Capacity 4 gallons, each----- 3.25

**Moe's Star Fountain and Feeder**

Made of a single piece of heavy metal. No solder, no seams, no loose parts. Suitable for feed as well as water. Little chicks can not drown. Fits any Mason jar in 1 pint, 1 quart, and 2 quart sizes.

No. 32 (Glass jar not included) -----15c

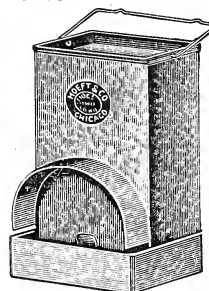
**Drop Bottom Fountain**

Drop Bottom, easy to fill and to clean. Has wire handle and may be hung on the wall out of the litter and dirt.

2-qt. capacity, each-----\$0.90

1-gal. capacity, each----- 1.15

2-gal. capacity, each----- 1.35

**Peerless Drinking Fountain**

Easy to clean and fill and fowls cannot injure their combs when drinking. Simple in construction, durable and practical.  
5-quart size, each-----\$1.00

**The Duplex Fountain**

Top section slides into bottom section.

The latest sanitary fountain on the market. This is a double fount, keeps the water clean and pure. Easy to fill. Easy to care for.

8-qt. capacity, each-----\$1.50

**Bottom Fill Fountain (Cone Shape)**

No. 19. 1-qt. capacity, ea., 35c

No. 20. 2-qt. capacity, ea., 45c

No. 24. 1-gal. capacity\_ 70c

**Leg Bands**

Key Ring. (Celluloid.) For American, Asiatic and Mediterranean Breeds. 10 colors--black, white, dark blue, pink, light blue, red, garnet, green, yellow, purple. Per dozen, 15c; 25 for 30c; 50 for 50c; 100 for 75c. Pigeon and Baby Chick Sizes. (Celluloid.) Per dozen, 15c; 25 for 30c; 50 for 50c; 100 for 75c.



# POULTRY FEEDS AND SUPPLIES

## SPECIAL NOTICE

Prices quoted represent market values at time of going to press only.

Market fluctuations prevent us quoting firm prices on Feeds in our Catalogue, but we are always prepared to quote firm prices upon receipt of an estimate of your wants.

None of our Feeds contain grit.

Prices quoted include delivery to Express or Freight depots here, purchaser paying transportation charges. Postage must be added if wanted by mail.

See Parcel Post, 2nd page of cover.

"GLOBE" CHICK MASH WITH BUTTERMILK. 4 lbs., 25c; 25 lbs., \$1.45; 50 lbs., \$2.60; bag of 100 lbs., \$4.90.

"GLOBE" CHICK GROWING MASH WITH BUTTERMILK. 4 lbs., 25c; 25 lbs., \$1.35; 50 lbs., \$2.45; bag of 100 lbs., \$4.60.

"GLOBE" CHICK FEED. 4 lbs., 25c; 25 lbs., \$1.15; 50 lbs., \$2.00; bag of 100 lbs., \$3.70.

"GLOBE" DEVELOPING FEED. 4 lbs., 25c; 25 lbs., \$1.10; 50 lbs., \$1.95; bag of 100 lbs., \$3.60.

"GLOBE" SCRATCH FEED. 5 lbs., 25c; 25 lbs., \$1.05; 50 lbs., \$1.85; bag of 100 lbs., \$3.35.

"GLOBE" EGG MASH. 5 lbs., 25c; 25 lbs., \$1.20; 50 lbs., \$2.15; bag of 100 lbs., \$4.00.

SPRATT'S CHICK MEAL. 2 lbs., 30c; 25 lbs., \$3.20; 50 lbs., \$6.15; bag of 100 lbs., \$12.00.

SPRATT'S POULTRY MEAL. 2 lbs., 30c; 25 lbs., \$3.20; 50 lbs., \$6.15; bag of 100 lbs., \$12.00.

SPRATT'S TURKEY MEAL, GAME MEAL AND PHEASANT MEAL. 2 lbs., 30c; 25 lbs., \$3.20; 50 lbs., \$6.15; bag of 100 lbs., \$12.00.

PINHEAD OATS. 3 lbs., 25c; 25 lbs., \$1.35; 50 lbs., \$2.40; bag of 100 lbs., \$4.50.

HULLED OATS. 3 lbs., 25c; 25 lbs., \$1.35; 50 lbs., \$2.40; bag of 100 lbs., \$4.50.

SUNFLOWER SEED. 2 lbs., 25c; 25 lbs., \$1.85; 50 lbs., \$3.45; bag of 100 lbs., \$6.60.

ALFALFA MEAL, Fine. 5 lbs., 25c; 25 lbs., 85c; 50 lbs., \$1.40; bag of 100 lbs., \$2.50.

ALFALFA MEAL, Coarse. 5 lbs., 25c; 25 lbs., 80c; 50 lbs., \$1.30; bag of 100 lbs., \$2.30.

MEAT SCRAPS. 50 per cent Protein. 3 lbs., 25c; 25 lbs., \$1.30; 50 lbs., \$2.30; bag of 100 lbs., \$4.30.

DIGESTER TANKAGE. 60 per cent Protein. 25 lbs., \$1.30; 50 lbs., \$2.30; bag of 100 lbs., \$4.30.

BLOOD MEAL. 80 per cent Protein. 2 lbs., 25c; 25 lbs., \$1.75; 50 lbs., \$3.20; bag of 100 lbs., \$6.10.

GRANULATED BONE. Furnished in three sizes; fine, medium and coarse. 3 lbs., 25c; 25 lbs., \$1.30; 50 lbs., \$2.30; bag of 100 lbs., \$4.30.

GRANULATED BONE MEAL for Poultry and Hogs. 3 lbs., 25c; 25 lbs., \$1.30; 50 lbs., \$2.30; bag of 100 lbs., \$4.30.

CHARCOAL. Furnished in three sizes; fine, medium and coarse. 5 lbs., 25c; 25 lbs., \$1.00; 50 lbs., \$1.50.

CRUSHED OYSTER SHELLS. Furnished in two sizes: fine for Chicks and coarse for Poultry. 5 lbs., 15c; 25 lbs., 50c; 50 lbs., 80c; bag of 100 lbs., \$1.25.

MICA CRYSTAL GRIT. Furnished in three sizes: fine for Chicks, medium for Pigeons and coarse for Poultry. 5 lbs., 15c; 25 lbs., 50c; 50 lbs., 75c; bag of 100 lbs., \$1.20.

No charge for bags on any of the above Feeds.

## Pigeon Feeds

"GLOBE" PIGEON FEED. No corn—no grit. 3 lbs., 25c; 25 lbs., \$1.50; 50 lbs., \$2.75; bag of 100 lbs., \$5.15.

CANADA PIGEON PEAS. 3 lbs., 25c; 25 lbs., \$1.85; 50 lbs., \$3.45; bag of 100 lbs., \$6.60.

HEMP SEED. 3 lbs., 30c; 25 lbs., \$1.95; 50 lbs., \$3.65; bag of 100 lbs., \$7.00.

PIGEON MILLET. 3 lbs., 25c; 25 lbs., \$1.45; 50 lbs., \$2.65; bag of 100 lbs., \$5.00.

FOUST'S HEALTH GRIT. 6 lbs., 25c; 25 lbs., 80c; 50 lbs., \$1.35; bag of 100 lbs., \$2.35.

ROCK SALT. Small lots, per lb., 5c; 25 lbs., 50c; 50 lbs., 80c; bag of 100 lbs., \$1.30.

No charge for bags on any of the above Feeds.

TOBACCO STEMS. Per bale, about 125 lbs., \$2.00.

## Flit

Destroys Flies, Mosquitos, Moths, Ants, Bedbugs, Roaches, other Insects and their eggs. Pint, 75c; quart, \$1.25.

Prices on all Poultry Feeds and Supplies Subject to Change Without Notice.

Write for Special Firm Prices on Lots of 5 Bags or Over.

## Miscellaneous Feeds

BARLEY, for Feed. 5 lbs., 25c; 25 lbs., 80c; 50 lbs., \$1.30; bag of 100 lbs., \$2.25.

BRAN. 5 lbs., 25c; 25 lbs., 80c; 50 lbs., \$1.30; bag of 100 lbs., \$2.25.

BUCKWHEAT, for Feed. 3 lbs., 25c; 25 lbs., \$1.45; 50 lbs., \$2.65; bag of 100 lbs., \$5.00.

CORN MEAL. 5 lbs., 25c; 25 lbs., \$1.00; 50 lbs., \$1.70; bag of 100 lbs., \$3.10.

CRACKED CORN. 5 lbs., 25c; 25 lbs., \$1.00; 50 lbs., \$1.70; bag of 100 lbs., \$3.10.

CORN SHELLED, Yellow. 5 lbs., 25c; 25 lbs., \$1.00; 50 lbs., \$1.70; bag of 100 lbs., \$3.10.

KAFIR-CORN, White. 5 lbs., 25c; 25 lbs., \$1.00; 50 lbs., \$1.70; bag of 100 lbs., \$3.10.

MIDDLINGS. 5 lbs., 25c; 25 lbs., 80c; 50 lbs., \$1.30; bag of 100 lbs., \$2.30.

MILK MAIZE. 5 lbs., 25c; 25 lbs., \$1.00; 50 lbs., \$1.70; bag of 100 lbs., \$3.10.

No charge for bags on any of the above Feeds.

## Spratt's

### Patent Dog and Puppy Cakes

Require no preparation, no trouble, no cooking, and are adapted for all breeds of dogs.

SPRATT'S PATENT DOG CAKES. 2 lbs., 30c; 25 lbs., \$3.00; 50 lbs., \$5.65; box of 100 lbs., \$11.00.

SPRATT'S PATENT PUPPY CAKES. 2 lbs., 35c; 25 lbs., \$3.25; 50 lbs., \$6.15; box of 100 lbs., \$12.00.

## Pure Seeds for Birds

CANARY SEED, re-cleaned.....Per lb., 15c

RAPE SEED, re-cleaned.....Per lb., 15c

HEMP SEED, re-cleaned.....Per lb., 15c

MIXED BIRD SEED, re-cleaned.....Per lb., 15c

SUNFLOWER SEED, re-cleaned.....Per lb., 15c

MILLET SEED, re-cleaned.....Per lb., 10c

LETTUCE SEED, re-cleaned.....Per lb., 20c

TUTTLE BONE.....10c per oz., Per lb., 60c

BIRD GRAVEL.....Package, 15c

## Pratt's

### Buttermilk Baby Chick Food

2½ lb. pkg., 25c; 5½ lb. pkg., 50c; 14 lb. bag, \$1.25; 25 lb. bag, \$2.00; 50 lb. bag, \$3.50; 100 lb. bag, \$6.00.

## O. K. Poultry Litter

A DEODORIZER, ABSORBENT, DISINFECTANT, ECONOMICAL AND LABOR SAVING

O. K. POULTRY LITTER is imported and is especially adapted as a litter in Scratching Pens and for catching droppings under perches. Many prominent Poultry Raisers have used it for years.

One bale will cover about 80 square feet, 3 inches deep. Per bale, \$4.00; 5 to 9 bales, \$3.75 per bale; 10 bales or over, \$3.60 per bale.

## Mustard for Poultry

FRENCH'S POULTRY MUSTARD. 1½ lbs., 55c; 3 lbs., \$1.00; 5 lbs., \$1.65; 10 lbs., \$3.25; 25 lbs., \$7.80; 100 lb. drum, \$20.00.

## Blatchford's Calf Meal

BLATCHFORD'S CALF MEAL. 25 lbs., \$1.70; 50 lbs., \$3.00; 100 lbs., \$5.50.

## Darling's Meat Crisps

DARLING'S MEAT CRISPS. 3 lbs., 35c; 6½ lbs., 70c; 25 lb. pail, \$3.50.

## Carbola

A Disinfecting Germ-Killing White Paint

There is nothing that contributes more to success in poultry raising than absolute cleanliness and sanitation in the poultry house. Clean living quarters mean as much as proper feeding. 5 lb. pkg., 75c; 10 lb. pkg., \$1.25; 50 lb. bag, \$5.25.

# ROYAL THERMIC FOUNTAINS

*Sanitary*

*Well Insulated*

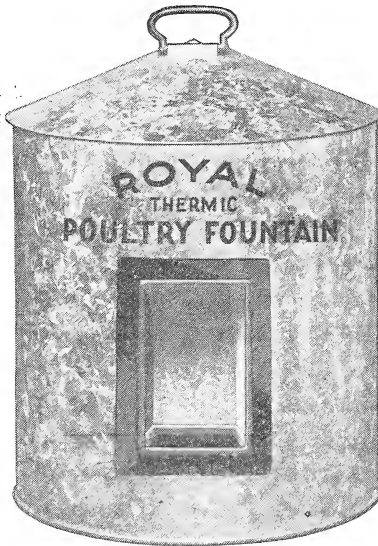
*Non-Freezing*

In summer weather it

**Insures good,  
clean, cool water  
at all times for  
the poultry.**

Easy to fill and clean.

Inserted drinking pocket  
keeps dirt and litter out.



In cold weather it

**Keeps the water  
at the right  
temperature**

Warm water in the win-  
ter means more eggs  
at the higher  
prices.

**No Chopping of  
Ice**

in disagreeable weather  
when our fountain  
is used.

Works like a Thermic Bottle. Keeps water warm in winter and cool in summer. Made by special machinery of best galvanized iron. Special reinforced bottom  $\frac{3}{8}$  inch off the ground. Extra wide drinking pocket. Extra heavy malleable handle. Properly insulated. Absolutely guaranteed. Packed one to the crate.

Made in the following sizes:

No.	Size	Shipping Weight	List Price
2	2 gallon	15 pounds	\$3.50
3	3 gallon	20 pounds	4.00
5	5 gallon	30 pounds	5.00

ALL THE LEADING

**Poultry Appliances and Supplies**

**The J. M. McCullough's Sons Co.**

R. S. McCULLOUGH, President Incorporated 1904 GEO. H. PARVIN, Vice-Pres't.

**Seedsman and Importers of Bulbs**

Salesrooms and Offices:

**316 WALNUT STREET 316**  
Just Below Fourth

Opposite Walnut Street Entrance Dixie Terminal Bldg.

Warehouse and } 328, 330 and 332 East Front Street  
Track Depot } 323 and 325 Yeatman Street



LONG DISTANCE PHONE MAIN 4598—P. O. BOX 845

CINCINNATI, OHIO